

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 18, 2003, 14:46:42 ; Search time 22 Seconds
(without alignments)
458,125 Million cell updates/sec

Title: US-09-943-851A-42

Sequence: 1 MRRLVLLGLAAGSPPLD.....DSTFGSLVSDMHSSPVFA 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1335	100.0	243	1	COT5_HUMAN
2	433.5	32.7	247	1	APM1_MOUSE
3	424	32.0	244	1	APM1_HUMAN
4	418.5	31.6	680	1	CA1A_HUMAN
5	417	31.5	674	1	CA1A_CHICK
6	412	31.1	246	1	C10C_MOUSE
7	411.5	31.1	674	1	CA1A_BOVIN
8	410.5	31.0	289	1	COT7_HUMAN
9	408	30.8	680	1	CA1A_MOUSE
10	403	30.4	245	1	COT2_HUMAN
11	397	30.0	245	1	C10C_HUMAN
12	374	28.2	744	1	CA18_RABIT
13	373	28.2	419	1	COLE_LEPMA
14	368	27.8	744	1	CA18_HUMAN
15	366.5	27.7	743	1	CA18_MOUSE
16	363	27.4	635	1	CA28_HUMAN
17	362	27.3	251	1	C10B_HUMAN
18	360.5	27.2	253	1	C10B_RAT
19	350	26.4	253	1	C10B_MOUSE
20	314	23.7	245	1	C10A_HUMAN
21	314	23.7	245	1	C10A_MOUSE
22	298.5	22.5	255	1	GLIC_MOUSE
23	285.5	21.5	258	1	C1RF_HUMAN
24	282	21.3	258	1	C1RF_MOUSE
25	280.5	21.2	215	1	HP25_TAMSI
26	277.5	20.9	215	1	HP27_TAMSI
27	264.5	20.0	246	1	COT3_HUMAN
28	261.5	19.7	196	1	HP20_TAMSI
29	230.5	17.4	1049	1	CA13_BOVIN
30	229.5	17.3	281	1	COT1_HUMAN
31	228	17.2	684	1	CA39_HUMAN
32	224	16.9	636	1	CA13_RAT
33	223	16.8	1464	1	CA13_MOUSE

34	222.5	16.8	1758	1	CA24_CAEL	P17140 caenorhabdit
35	221.5	16.7	170	1	CA28_MOUSE	P25318 mus musculus
36	221	16.7	1019	1	CA16_CHICK	P20785 gallus galli
37	221	16.7	1262	1	CA13_CHICK	P12105 gallus galli
38	220	16.6	248	1	PSPA_CANFA	P06908 canis familiaris
39	220	16.6	360	1	CCD2_CAEL	P35799 caenorhabdit
40	219.5	16.6	247	1	PSPA_RABIT	P12842 oryctolagus
41	219.5	16.6	1466	1	CA13_HUMAN	P02461 homo sapien
42	219	16.5	671	1	CA11_RAT	P02454 rattus norv
43	218.5	16.5	1453	1	CA11_MOUSE	P11087 mus musculus
44	217.5	16.4	1516	1	CA1H_HUMAN	P39060 homo sapien
45	217	16.4	747	1	CA12_BOVIN	P02459 bos taurus

ALIGNMENTS

RESULT 1
ID COT5_HUMAN STANDARD: PRT: 243 AA.
AC 09BXJ0: 09GFX4:
DT 15-JUN-2002 (Rel. 41, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Complement-clq tumor necrosis factor-related protein 5 precursor.
GN C10TNF5 OR CTRP5.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN (1)
RP SEQUENCE FROM N.A.
RA Sheppard P.O., Humes J.M.;
RT "Homo sapiens complement-clq tumor necrosis factor-related protein.";
RL Submitted (DEC-2000) to the EMBL/Genbank/DBJ databases.
RN (2)
RP SEQUENCE OF 25-243 FROM N.A.
RC Tissue=uterus;
RA Ottenwelder B., Obermayer B., Mewes H.-W., Gassenhuber J.,
RW Wiemann S.;
RL Submitted (AUG-1999) to the EMBL/Genbank/DBJ databases.
CC -1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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CC -----
DR EMBL: AF329841: AAK17965.1: -;
DR EMBL: AL110261: CAB3702.1: -;
DR Genew: HGNC:14344; C1QTNF5.
DR InterPro: IPR010173; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR Pfam: PF01391; Collagen; 1.
DR PRINTS: PRO0007; COMPLEMENTC1Q.
DR SMART: SM00110; C1Q; 1.
DR PROSITE: PS01113; C1Q; FALSE_NEG.
KW Collagen; Signal.
FT SIGNAL 1 15
FT CHAIN 16 243 POTENTIAL.
FT DOMAIN 30 95 RELATED PROTEIN 5.
FT DOMAIN 97 243 COLLAGEN-LIKE.
SQ SEQUENCE 243 AA: 25298 MW: 70CDA65CDA7EB784 CRC64;
Query Match 100.0%; Score 1325; DB 1; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.7e-85;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RA	Schaeffer A., Orso E., Pallitsch K.D., Buechner C., Prosser M.
RA	Fuerst A., Schoelmerich J., Schmitz G.,

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 CC -----
 DR EMBL: DA5371; BAA08227.1; -
 DR EMBL: AB012165; BAA86716.1; -
 DR EMBL: AB012164; BAA86716.1; JOINED.
 DR EMBL: AJ131460; CAB52413.1; -
 DR EMBL: AJ131461; CAB52413.1; JOINED.
 DR MIM: 605441; -
 DR InterPro: IPR001073; Clq.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; Clq; 1.
 DR Pfam: PF01391; Collagen; 1.
 DR PRINTS: PRO0007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 KW Hormone; Collagen; Signal; Repeat; Hydroxylation; Plasma;
 KW Polymorphism; Disease mutation; Obesity; Diabetes mellitus.
 FT SIGNAL 1 14
 FT CHAIN 15 244
 FT DOMAIN 42 107
 FT DISULFID 36 244
 FT MOD_RES 44 44 INTERCHAIN (BY SIMILARITY).
 FT MOD_RES 47 47 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 53 53 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 62 62 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 71 71 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 76 76 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 86 86 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 95 95 HYDROXYLATION (BY SIMILARITY).
 FT MOD_RES 104 104 HYDROXYLATION (BY SIMILARITY).
 FT VARIANT 84 84 G -> R.
 FT VARIANT 112 112 /FTID-VAR_013273.
 FT VARIANT 117 117 R -> C (IN ADIPONECTIN DEFICIENT).
 FT VARIANT 164 164 /FTID-VAR_013274.
 FT VARIANT 221 221 V -> M.
 FT VARIANT 241 241 I -> T.
 FT VARIANT 241 241 R -> S.
 FT VARIANT 241 241 /FTID-VAR_013277.
 FT VARIANT 241 241 H -> P.
 FT SEQUENCE 244 AA; 26414 MW; 64D8C6C1204B1018 CRC64;
 Query Match 32.0%; Score 424; DB 1; Length 244;
 Best Local Similarity 40.5%; Pred. No. 5.3e-23;
 Matches 106; Conservative 26; Mismatches 72; Indels 58; Gaps 10;

RESULT 4
 CA1A_HUMAN STANDARD: PRT: 680 AA.
 ID 003692; 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Collagen alpha 1(X) chain precursor.
 GN COL10A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OC NCBI_TaxID:9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-92109659; PubMed-1764025;
 RA Thomas J.T., Gresswell C.J., Rash B., Nicolai H., Jones T.,
 RA Solomon E., Grant M.E., Boot-Handford R.P.;
 RT "The human collagen X gene. Complete primary translated sequence and
 RT chromosomal localization.";
 RL Biochem. J. 280:617-623(1991).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-93012005; PubMed-1397333;
 RA Reichenberger E., Beier F., Luvalle P., Olsen B.R., von der Mark K.,
 RA Bertling W.M.;
 RT "Genomic organization and full-length cDNA sequence of human collagen
 RT X.";
 RL FEBS Lett. 311:305-310(1992).
 RN [3]
 RP SEQUENCE FROM N.A.
 RA Beier F., Lammli M.B., von der Mark K.;
 RL Submitted (JUN-1996) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A.
 RA Williams S.;
 RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
 RN [5]
 RP SEQUENCE OF 52-680 FROM N.A.
 RX MEDLINE-92267014; PubMed-1587271;
 RA Apte S.S., Seldin M.F., Hayashi M., Olsen B.R.;
 RT "Cloning of the human and mouse type X collagen genes and mapping of
 RT the mouse type X collagen gene to chromosome 10.";
 RL Eur. J. Biochem. 206:217-224(1992).
 RN [6]
 RP SEQUENCE OF 561-666 FROM N.A.
 RX MEDLINE-91243838; PubMed-2037056;
 RA Apte S., Mattei M.G., Olsen B.R.;
 RT "Cloning of human alpha 1(X) collagen DNA and localization of the
 RT COL10A1 gene to the q21-q22 region of human chromosome 6.";
 RL FEBS Lett. 282:393-396(1991).
 RN [7]
 RP SEQUENCE OF 547-655 FROM N.A.
 RX MEDLINE-92077285; PubMed-1743401;
 RA Reichenberger E., Aigner T., von der Mark K., Stoeb H., Bertling W.;
 RT "In situ hybridization studies on the expression of type X collagen
 RT in fetal human cartilage.";
 RL Dev. Biol. 148:562-572(1991).
 RN [8]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-97255959; PubMed-9101290;
 RA Kuvaldam H., Tromp G., Prockop D.J.;
 RT "Mutations in fibrillar collagens (types I, II, III, and XI), fibril-
 RT associated collagen (type IX), and network-forming collagen (type X)
 RT cause a spectrum of diseases of bone, cartilage, and blood vessels.";
 RL Hum. Mutat. 9:300-315(1997).
 RN [9]
 RP VARIANTS SMCD ASP-598 AND PRO-614.
 RX MEDLINE-94136476; PubMed-8304336;
 RA Wallis G.A., Rash B., Sweetman W.A., Thomas J.T., Super M., Evans G.,
 RA Grant M.E., Boot-Handford R.P.;

DISEASES: DEFECTS IN COL10A1 ARE THE CAUSE OF SPONDYLOMETAPHYSEAL
DYSPLASIA (SMD). SMD COMPRISES A HETEROGENEOUS GROUP OF HERITABLE
SKELETAL DYSPLASIAS CHARACTERIZED BY MODIFICATIONS OF THE
VERTEBRAL BODIES OF THE SPINE AND METAPHYSES OF THE TUBULAR BONES.
-1- SIMILARITY: STRONG, TO ALPHA 1 AND 2 TYPE VIII COLLAGENS.
-1- SIMILARITY: CONTAINS 1 C10 DOMAIN.

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CC CC EMBL; X60382; CAA42933.1; -
CC DR EMBL; X65120; CAA46236.1; -
CC DR EMBL; X98568; CAA67178.1; -
CC DR EMBL; ALI21963; CAB87590.1; -
CC DR EMBL; S68531; AAC60615.1; -
CC DR EMBL; X58879; CAA41686.1; -
CC DR EMBL; W74050; AAA61221.1; -
CC DR EMBL; W72579; CAA51170.1; -
CC DR EMBL; X72580; CAA51170.1; JOINED.
CC DR PIR; S15826; S15826.
CC DR PIR; S30086; S30086.
CC DR PIR; M43901; A43901.
CC DR PIR; S18249; S18249.
CC DR PIR; S21856; S21856.
CC DR PIR; S26396; S26396.
CC DR Genew; HGNC:2185; COL10A1.
CC MIM; 120110; -
CC MIM; 156500; -
CC MIM; 184250; -
CC DR Interpro; IPR001073; C1Q.
CC DR Interpro; IPR000087; Collagen.
CC DR Pfam; PF00386; C1Q; 1.
CC DR Pfam; PF01391; Collagen; 8.
CC DR PRINTS; PR000007; COMPLEMENTC1Q.
CC DR SMART; SM00110; C1Q; 1.
CC DR PROSITE; PS01113; C1Q; 1.
CC KM Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
KM Cartilage; Collagen; Signal; Polymorphism.
CC FT STGNL 1 18
FT CHAIN 19 680
FT DOMAIN 19 56
FT DOMAIN 57 519
FT DOMAIN 520 680
FT DOMAIN 545 680
FT VARIANT 18 18
FT VARIANT 18 18
FT VARIANT 545 545
FT VARIANT 591 591
FT VARIANT /FTId=VAR_001841.

Query Match 31.6%; Score 418.5; DB 1; Length 680;
Best Local Similarity 34.9%; Pred. No. 3.5e-22;
Matches 98; Conservative 34; Mismatches 82; Indels 67; Gaps 6

OY 15 GSRPLDNNKIPSLCPGRHGLPGRTHGSGQLPGRDGRDRDAGAPGARAGEKGEGCRPLP 74
DB 401 GNPLGPGRKDGCVGGPPGLDPVGRACAKCMRPHNDEAGRARGPLIGRGPIGCIP 460
OY 75 -----GPRGDPGRGEA-----GPACTPGRAECS 99
DB 461 GFPPSKDPPGSPGPPRAGIATKTGNGTPGPPCGRRGHSGEPLGPPPPPPGQAV 520
OY 100 VP-----PSARSARSRSPVPDPAPLPDFRVLVNE 132

DB 521 MPEGRKAGRPRLSGTPLVSNAGVGMVSAFTVILSKAY--PAIGTPPIPKILLYNR 578
 QY 133 OGHDAVATGKFTQCVGVYFAVHATYVRASLQFDLVKNGESIA-SFFQFGGMPKPSAL 191
 DB 579 OQHDPRICTTCQIPGTYFSYHVGCHTVMWGLVNGTIPVATYDEYTKGVLDA-- 636
 QY 192 SGAMVRLPEPDQVWVGVDYIGIVASIKTDSFGFLV 232
 DB 637 SGSAITDLTENDQWALQPLNAESNGLYSSEYVHSFSGFLV 677
 RESULT 5
 CA1A.CHICK STANDARD: PRT: 674 AA.
 ID CA1A.CHICK P08125;
 AC 01-AUG-1988 (Rel. 08, Created)
 DT 01-NOV-1991 (Rel. 20, Last sequence update)
 DT 15-JUL-1999 (Rel. 38, Last annotation update)
 DE Collagen alpha 1(x) chain precursor.
 GN COL10A1.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 CC Gallus.
 OX NCBI_TaxID=9031;
 RN RP SEQUENCE OF 48-674 FROM N.A., AND SEQUENCE OF 103-117 AND 453-466.
 RA MEDLINE=86168227; PubMed=3082876;
 RA Niinomiya Y., Gordon M., van der Rest M., Schmid T., Linsenmayer T.,
 RA Olsen B.R.,
 RT "The developmentally regulated type X collagen gene contains a long
 RT open reading frame without introns."
 RT J. Biol. Chem. 261:5041-5050(1986).
 RN RP SEQUENCE OF 1-75 FROM N.A.
 RA MEDLINE=89054019; PubMed=2461368;
 RA Luvallie P., Niinomiya Y., Rosenblum N.D., Olsen B.R.,
 RT "The type X collagen gene. Intron sequences split the 5'-untranslated
 RT region and separate the coding regions for the non-collagenous amino-
 RT terminal and triple-helical domains."
 RT J. Biol. Chem. 263:18378-18385(1988).
 RN RP [3]
 REVISIONS TO C-TERMINUS.
 RP MEDLINE=89380199; PubMed=2476437;
 RA Yamaguchi N., Benya P.D., van der Rest M., Niinomiya Y.,
 RT "The cloning and sequencing of alpha 1(VIII) collagen cDNAs.
 RT demonstrate that type VIII collagen is a short chain collagen and
 RT contains triple-helical and carboxyl-terminal non-triple-helical
 RT domains similar to those of type X collagen."
 RT J. Biol. Chem. 264:16022-16029(1989).
 CC CC -1- FUNCTION: TYPE X COLLAGEN IS A PRODUCT OF HYPERTROPHIC
 CC CHONDROCYTES AND HAS BEEN LOCALIZED TO PRESUMPTIVE
 CC MINERALIZATION ZONES OF HYALINE CARTILAGE.
 CC CC -1- SUBUNIT: HOMOTRIMER.
 CC CC -1- PMW: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
 CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
 CC CC -1- SIMILARITY: STRONG, TO ALPHA 1 AND 2 TYPE VIII COLLAGENS.
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 CC CC -----
 CC DR EMBL: M13496; AAA48736.1; ALT_SEQ.
 CC DR EMBL: J04194; AAA48634.1; .
 CC DR PIR: A31896; A31896.
 CC DR InterPro: IPR001073; Clq.
 CC DR InterPro: IPR000087; Collagen.
 CC DR Pfam: PF00386; Clq; 1.

DR Pfam: PF01391; Collagen; 8.
 DR PRINTS: PRO0007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 KW Cartilage; Collagen; Signal.
 FT SIGNAL 1 18
 FT CHAIN 19 674
 FT DOMAIN 19 52
 FT DOMAIN 53 512
 FT DOMAIN 513 674
 FT DOMAIN 539 674
 FT MOD_RES 453 453
 FT MOD_RES 456 456
 FT MOD_RES 456 456
 SQ SEQUENCE 674 AA; 66434 MW; EAB48B1EF174B145 CRC64;
 Query Match 31.5%; Score 417; DB 1; Length 674;
 Best Local Similarity 36.0%; Pred. No. 4,4e-22;
 Matches 96; Conservative 34; Mismatches 84; Indels 53; Gaps 6;
 QY 14 AGSPPLDNNKIPSLCPGHPGLPTGHHGSQGLPRDGRDGRDGAAPGAEKGGKRPGL 73
 DB 408 AGHPGLGPGVPGQGVKGVPGINGEPGRPSGIRGVGPIGPPGMPGAPGAKGAPGL 467
 QY 74 PGPR-----GDGPRGEA-----GPAPTGPAGECSP----- 101
 DB 468 PGPAIVTKGLRGPMPGLGPGKNGSEBQLPGPPPPPPGPPGQSTIPEGYVKGESNELS 527
 QY 102 -----PRSAFSAKRSERVPSPDAPLPDRVLAHQHYDAVTKFTC 145
 DB 528 GMSMKKAGANALGMVSAFTVILSKAY--PGATVIRKDKILYNGQHYDPTGFTC 565
 QY 146 QVPGVYFAVHATYVRASLQFDLVKNGESIA-SFFQFGGMPKPSALSGAMVRLPEPDQ 204
 DB 586 RLPGLTYFSYHVGCHTVMWGLVNGTIPVATYDEYTKGVLDA--SGSAVIDLMDNDQ 643
 QY 205 VVWVGVDYIGIVASIKTDSFGFL 231
 DB 644 VWLQPLNPSNGLYSSEYVHSFSGFL 670
 RESULT 6
 C1QC.MOUSE STANDARD: PRT: 246 AA.
 ID C1QC.MOUSE
 AC 002105;
 DT 01-JUL-1993 (Rel. 26, Created)
 DT 01-JUL-1993 (Rel. 26, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Complement C1q subcomponent, C chain precursor.
 GN C1QG OR C1QC.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN RP [1]
 RE SEQUENCE FROM N.A.
 RP STRAIN=ICR; TISSUE=Macrophage;
 RC MEDLINE=9301118; PubMed=1396691;
 RA Petty F., Reid K.B.M., Loos M.,
 RT "Isolation, sequence analysis and characterization of cDNA clones
 RT coding for the C chain of mouse C1q. Sequence similarity of
 RT complement subcomponent C1q, collagen type VIII and type X and
 RT precerebellin."
 RT Eur. J. Biochem. 209:129-134(1992).
 RN RP [2]
 RE SEQUENCE FROM N.A.
 RP STRAIN=BALB/c; TISSUE=Liver;
 RC MEDLINE=96186528; PubMed=8606057;
 RA Petty F., Mcclive P.J., Boto M., Morley B.J., Morahan G., Loos M.,
 RT "The mouse C1q genes are clustered on chromosome 4 and show
 RT conservation of gene organization."
 RT Immunogenetics 43:370-376(1996).
 CC CC -1- FUNCTION: C1Q ASSOCIATES WITH THE PROENZYME C1R AND C1S TO YIELD

CC C1, THE FIRST COMPONENT OF THE SERUM COMPLEMENT SYSTEM. THE
CC COLLAGEN-LIKE REGIONS OF C1Q INTERACT WITH THE CA(2+)-DEPENDENT
CC C1R(2)C1S(2) PROTEINASE COMPLEX, AND EFFICIENT ACTIVATION OF C1
CC TAKES PLACE ON INTERACTION OF THE GLOBULAR HEADS OF C1Q WITH THE
CC FC REGIONS OF IGG OR IGM ANTIBODY PRESENT IN IMMUNE COMPLEXES.
CC -1- SUBUNIT: C1 IS A CALCIUM-DEPENDENT TRIMOLECULAR COMPLEX OF C1Q, R
CC AND S IN THE MOLAR RATION OF 1:2:2. C1Q SUBCOMPONENT IS COMPOSED
CC OF NINE SUBUNITS, SIX OF WHICH ARE DISULFIDE-LINKED DIMERS OF THE
CC A AND B CHAINS, AND THREE OF WHICH ARE DISULFIDE-LINKED DIMERS OF
CC THE C CHAIN.
CC -1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC
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CC EMBL: X66295; CAA46993.1; -
CC EMBL: X92960; CAA63535.1; -
CC PIR: S29328; S29328.
CC MGI: MGI:88225; C1qc.
CC InterPro: IPR001073; C1q.
CC InterPro: IPR000087; Collagen.
CC Pfam: PF00386; C1q; 1.
CC Pfam: PF01391; Collagen; 1.
CC PRINTS: PR00007; COMPLEMENTC1Q.
CC SMART: SM00110; C1Q; 1.
CC PROSITE: PS01113; C1Q; 1.
CC Complement pathway; Plasma; Hydroxylation; glycoprotein; Collagen;
CC Repeat; Signal.
CC SIGNAL 1 29
CC CHAIN 30 246
CC DOMAIN 32 113
CC DOMAIN 114 246
CC DISULFID 33 33
CC
CC MOD_RES 37 37 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 40 40 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 43 43 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 61 61 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 64 64 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 73 73 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 76 76 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 79 79 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 82 82 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 97 97 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 100 100 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 106 106 HYDROXYLATION (BY SIMILARITY).
CC MOD_RES 109 109 HYDROXYLATION (BY SIMILARITY).
CC SEQUENCE 246 AA; 25966 MW; 2F79EA174ACBBE0 CRC64;

Query Match 31.1%; Score 412; DB 1; Length 246;
Best Local Similarity 42.2%; Pred. No. 3,7e-22;
Matches 103; Conservative 33; Mismatches 84; Indels 24; Gaps 10;

4 LTVLLVLLGLAAGSPDLNKRIPSLC---PGHPLGLPTGPHGHSGLGPRGDRGDRDAPG 60
15 LLLVLLVLLAL-----PL-RSQASACVYCIPIGMPGMPGAPGKMGHGLDGPKEPIPAVPG 68
61 APGKKGSGRGLGPRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDR 111
69 TGGKKGSGRGLGPRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDRGDR 128
112 ESRRPPPSDAPLPDRVLYNEQGHYDAVTKFTCOVPGVYFAVHATVYRASLDQDLVKN 171
129 TTYR-PEANALVRRNSVYTNQGHYNPSTGKFTCEVPLTYE-VYVTSHTANLCVHLMIN 186
172 GESIASFFQFGGMPKPSASLGAMVRLPEQDVWVQVGDYICIVASITDSTFFSGFL 231

DB 187 LARVASFCDDHMFN-SKQVS-SGALLRLQRGDEVM--LSVDYNGWNGIEGNSVFSGFL 242
QY 232 VYSD 235
DB 243 LEPD 246

RESULT 7
CA1A_BOVIN STANDARD; PRT; 674 AA.
ID CA1A_BOVIN
AC P23206;
DT 01-NOV-1991 (Rel. 20, Created)
DT 01-NOV-1991 (Rel. 20, Last sequence update)
DT 15-JUN-1999 (Rel. 38, Last annotation update)
DE Collagen alpha 1(X) chain precursor.
GN COL1A1.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
OX NCBI_Taxid=9913;

CC [1]
CC SEQUENCE FROM N.A.
CC TISSUE=Cartilage;
CC MEDLINE=9111311; PubMed=1703407;
CC Thomas J.T., Kwan A.P.L., Grant M.E., Boot-Handford R.P.;
CC "Isolation of cDNAs encoding the complete sequence of bovine type X
CC collagen. Evidence for the condensed nature of mammalian type X
CC collagen genes";
CC Biochem. J. 273:141-148(1991).
CC -1- FUNCTION: TYPE X COLLAGEN IS A PRODUCT OF HYPERTROPHIC
CC CHONDROCYTES AND HAS BEEN LOCALIZED TO PRESUMPTIVE
CC MINERALIZATION ZONES OF HYALINE CARTILAGE.
CC -1- SUBUNIT: HOMOTRIMER.
CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- SIMILARITY: STRONG, TO ALPHA 1 AND 2 TYPE VIII COLLAGENS.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC
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CC OR SEND AN EMAIL TO license@sib-sib.ch).

CC EMBL: X53556; CAA37624.1; -
CC PIR: S13301; S13301.
CC InterPro: IPR001073; C1q.
CC InterPro: IPR000087; Collagen.
CC Pfam: PF00386; C1q; 1.
CC Pfam: PF01391; Collagen; 9.
CC PRINTS: PR00007; COMPLEMENTC1Q.
CC Prodom: PD000007; Collagen; 1.
CC SMART: SM00110; C1Q; 1.
CC PROSITE: PS01113; C1Q; 1.
CC Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
CC Cartilage; Collagen; Signal; Glycoprotein.
CC SIGNAL 1 18
CC CHAIN 19 674
CC DOMAIN 19 56
CC DOMAIN 57 519
CC DOMAIN 520 674
CC DOMAIN 539 674
CC DISULFID 194 197
CC MOD_RES 460 460
CC MOD_RES 463 463
CC CARBOHYD 611 611
CC SEQUENCE 674 AA; 65546 MW; CD4CA73A03E004CA CRC64;

Query Match 31.1%; Score 411.5; DB 1; Length 674;
Best Local Similarity 34.9%; Pred. No. 1.1e-21;
COLLAGEN ALPHA 1(X) CHAIN.
NONHELICAL REGION (NC2).
TRIPLE-HELICAL REGION.
NONHELICAL REGION (NC1).
C1Q.
BY SIMILARITY.
HYDROXYLATION (BY SIMILARITY).
HYDROXYLATION (BY SIMILARITY).
N-LINKED (GLCNAC. . .) (POTENTIAL).
CD4CA73A03E004CA CRC64;

Matches 96; Conservative 34; Mismatches 84; Indels 61; Gaps 6;

QY 15 GSPPLDNKIPSLCPHPLGTPGCHHSQGLRGDRGDRDAPGAPGKGGGRGAP 74
 Db 401 GNDPLGPKRDPGLAGSPGLPGVPGAGACGVCHNGEAGPRVPLGTRGIGGPGID 460
 QY 75 -----GPRGDPGRCGA-----GAPGTPGAGGCS 99
 Db 461 GPGSGKDVGTGPPGPPAGIAGKGLNGPLGPPGPPGPPGPPGPPGPPGPPG 520
 QY 100 VP-----PRSAFSAKRSRVRPPSDAPLPEDRVLVNEDGHYA 138
 Db 521 LPEDFVYKAGORPVANAGVGTGMPVSAFYVILSKAL--PALGTPDPDLINKQDHYR 578
 QY 139 VYGFECQVPGVYFVAVHATVYRASLQDFLVKNGESIA-SFQFPGGMPKPSLSGAMV 197
 Db 579 RGIFLCKIPGIIYFYSYHIVKGTAMVGLKNGFVMTYDEYIKGYLDAQ--SSANVI 636
 QY 198 RLEPDQVWVGVGVGDIYASIKTDSFSGFLV 232
 Db 637 DLTENDQVWDLQPLMNGSNGLYSPEYVHSSFGFLV 671

RESULT 8

CQT7_HUMAN STANDARD; PRT; 289 AA.

AC 09BXJ2;
 DT 15-JUN-2002 (Rel. 41, Created)
 DT 15-JUN-2002 (Rel. 41, Last sequence update)
 DE Complement-c1q tumor necrosis factor-related protein 7 precursor.
 GN C1QTNF7 OR CTRP7.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxID=9606;
 RN 11
 RP SEQUENCE FROM N.A.
 RA Piddington C.S., Sheppard P.O., Bishop P., Lasser G.W.;
 RT "Homo sapiens complement-c1q tumor necrosis factor-related protein.";
 RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
 RN 12
 RP SEQUENCE FROM N.A.
 RA Tissue-Testis;
 RC Strausberg R.;
 RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
 CC -----
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 CC -----
 DR EMBL: AF398839; AKR17963.1;
 DR EMBL: BC022187; AAR22187.1;
 DR Genbank: HGNC:14342; C1QTNF7.
 DR InterPro: IPR001073; C1q.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; C1q; 1.
 DR Pfam: PF01391; Collagen; 2.
 DR PRINTS: PRO0007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1q; 1.
 DR PROSITE: PS01113; C1q; 1.
 DR Collagen; Signal.
 KW COLLAGEN; Signal.
 FT CHAIN 1 16
 FT SIGNAL 17 289
 FT DOMAIN 38 139
 FT DOMAIN 141 276
 FT COLLAGEN-LIKE.
 FT C1Q.

SO SEQUENCE 289 AA; 30683 MW; A61609FF68D26946 CRC64;

Query Match 31.0%; Score 410.5; DB 1; Length 289;

Best Local Similarity 40.0%; Pred. No. 5,4e-22;

Matches 98; Conservative 26; Mismatches 84; Indels 37; Gaps 7;

QY 24 IPSL--CPCHPLPTCPGHHSQGLRGDRGDRGAP-----GAPGKG 66
 Db 36 IRGLGPPGPPGANSPPGPHGRIGLRGDRGGRGKGEKGTAGLRKRTGPLGLAGEKG 95
 QY 67 ECGRGLDPPGRCGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPG 111
 Db 96 DQGTGKRCPLGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPGPPG 155
 QY 112 ESRVPPSDAPLPFRVLVNDGHDVATGKFTQVPGVYFVAVHATVYRASLQDFLVKN 171
 Db 156 TSY--PEERLPLTFKFLVFNCEGHEHNPATGKFAFPGIYFYSYDITLANKHLIGLVHN 213
 QY 172 GESIASFFQFGMPKPSLSGAMVRLPDQVWVGVGDIYASIK-TDSTFSGF 230
 Db 214 GQYRKRTDANTGNHDA--SGSYIYIQLPDEYWLIFFTDQGLFSDPGMADLSFGF 271
 QY 231 LVYSD 235
 Db 272 LLYVD 276

RESULT 9

CA1A_MOUSE STANDARD; PRT; 680 AA.

ID CA1A_MOUSE
 AC 005306;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 01-NOV-1995 (Rel. 32, Last annotation update)
 DE Collagen alpha 1(X) chain precursor.
 DE COL10A1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Scurionath; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN 11
 RP SEQUENCE FROM N.A.
 RC STRAIN-BALB/C;
 RX MEDLINE-93143676; PubMed-8424763;
 RA Elima K., Eerola I., Rosati R., Metsaranta M., Garofalo S., Perala M.,
 de Crombrughe B., Vuorio E.;
 RT "The mouse collagen X gene: complete nucleotide sequence, exon
 RT structure and expression pattern.";
 RL Biochem. J. 289:247-253(1993).
 RN 12
 RP SEQUENCE FROM N.A.
 RC STRAIN-129/SV; Tissue-Liver;
 RX MEDLINE-93238750; PubMed-8477738;
 RA Kong R.Y.C., Kwan K.M., Lau E.T., Thomas J.T., Boot-Handford R.P.,
 Grant M.E., Cheah K.S.E.;
 RT "Intion-exon structure, alternative use of promoter and expression of
 RT the mouse collagen X gene, Col10a-1.";
 RL Eur. J. Biochem. 213:99-111(1993).
 RN 13
 RP SEQUENCE OF 51-680 FROM N.A.
 RC STRAIN-DBA/2J;
 RX MEDLINE-92267014; PubMed-1587271;
 RA Apte S.S., Seldin M.F., Hayashi M., Olsen B.R.;
 RT "Cloning of the human and mouse type X collagen genes and mapping of
 RT the mouse type X collagen gene to chromosome 10.";
 RL Eur. J. Biochem. 206:217-224(1992).
 RN 14
 RP SEQUENCE OF 385-627 FROM N.A.
 RC STRAIN-C57BL/6;
 RX MEDLINE-92182017; PubMed-1543751;
 RA Elima K., Metsaranta M., Kallio J., Pernelae M., Eerola I.,
 Garofalo S., de Crombrughe B., Vuorio E.;
 RT "Specific hybridization probes for mouse alpha 2(IX) and alpha 1(X)

[illegible]

Db 564 AVGAPIPEDELLYNROQADYDPSGJFTCKIPETIYFESHVHNKGNHWVGLKNGSTPTMY 623

QY 177 SEFOFGGMPKPASTSGGAMVRLPEDDOVMVGVGDYIGIYASIKTDSFGSLV 232

624 TYDEYSKGYLDAQ--SGSAIMELTENDQVWLQLPNAESNGLYSSELYVHSSFGSLV 677

[illegible]

Db 131 KKEPGLPGSCSGSHTKSAFSAVATKSYRERLPKFDKILMNEGHYNASSGKFCVCG 190
QY 147 VPGVYFAVAATYVYRASLODLYKNGESISFQFQGMKPKSLSGANVRLPEEDQV 206
Db 191 VPGVYFTYDTILANMHLALGLWNGOYRIARTEDANTGNHDA--SGSTILALKGDEVM 248
QY 207 VQGVGVGYIGI-YASIKTDSTFSGFLVYSD 235
Db 249 LQIFYSQNGLEFYDPWTDSLFTGFLITAD 278
RESULT 11
ID C1QC_HUMAN STANDARD: PRT: 245 AA.
C1QC_HUMAN
P02747; Q96DL2; Q96H05;
21-JUN-1986 (Rel. 01, Created)
15-JUN-2002 (Rel. 41, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
DE Complement C1q subcomponent, C chain precursor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
NCBI_TaxID=9606;
[1]
SEQUENCE FROM N.A.
RC TISSUE=Monocytes;
RX MEDLINE=91174759; PubMed=1706597;
RA Selvar G.C., Blake D.J., Reid K.B.M.;
RT Characterization and organization of the genes encoding the A-, B-
and C-chains of human complement subcomponent C1q. The complete
RT derived amino acid sequence of human C1q.";
RL Biochem. J. 274:481-490(1991).
[2]
SEQUENCE FROM N.A.
RC TISSUE=Cerebellum;
RA Nishi T., Nakagawa S., Senoh A., Mizuguchi H., Inagaki H., Suzuki Y.,
Hata H., Nakagawa K., Mizuno S., Morinaga M., Kawamura M.,
Sugiyama T., Irie R., Otsuki T., Sato H., Nishikawa T., Sugiyama A.,
Kawakami B., Nagai K., Isogai T., Sugano S.;
RT "NEDO human cDNA sequencing project.";
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
[3]
SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Strausberg R.;
RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
[4]
SEQUENCE OF 29-122.
RX MEDLINE=80020137; PubMed=486087;
RA Reid K.B.M.;
RT Complete amino acid sequences of the three collagen-like regions
RT present in subcomponent C1q of the first component of human
RT complement.";
RL Biochem. J. 179:367-371(1979).
[5]
REVIEW OF C1Q DEFICIENCY.
RX MEDLINE=98450587; PubMed=9777412;
RA Petry F.;
RL "Molecular basis of hereditary C1q deficiency.";
CC Immunobiology 199:286-294(1998).
-1- FUNCTION: C1Q ASSOCIATES WITH THE PROENZYMES C1R AND C1S TO YIELD
C1, THE FIRST COMPONENT OF THE SERUM COMPLEMENT SYSTEM. THE
COLLAGEN-LIKE REGIONS OF C1Q INTERACT WITH THE CA(2+)-DEPENDENT
C1R(2)C1S(2) PROENZYME COMPLEX, AND EFFICIENT ACTIVATION OF C1
TAKES PLACE ON INTERACTION OF THE GLOBULAR HEADS OF C1Q WITH THE
FC REGIONS OF IGG OR IGM ANTIBODY PRESENT IN IMMUNE COMPLEXES.
-1- SUBUNIT: C1 IS A CALCIUM-DEPENDENT TRIMOLECULAR COMPLEX OF C1Q, R
AND S IN THE MOLAR RATION OF 1:2:2. C1Q SUBCOMPONENT IS COMPOSED
OF NINE SUBUNITS, SIX OF WHICH ARE DISULFIDE-LINKED DIMERS OF THE
A AND B CHAINS, AND THREE OF WHICH ARE DISULFIDE-LINKED DIMERS OF
THE C CHAIN.
-1- PTM: O-LINKED GLYCANS CONSIST OF GLC-GAL DISACCHARIDES.

CC -1- DISEASE: DEFECTS IN C1QC ARE A CAUSE OF C1Q DEFICIENCY. IT IS A
CC RARE GENETIC DISORDER WHICH IS ASSOCIATED WITH RECURRENT
CC INFECTIONS AND A HIGH PREVALENCE OF LUPUS ERYTHEMATOSUS-LIKE
CC SYMPTOMS. IT IS CHARACTERIZED BY A LOSS OF ACTIVATION OF THE
CC COMPLEMENT CLASSICAL PATHWAY.
CC -1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: AK057792; BAB71575.1; -
CC EMBL: BC009016; AAH09016.1; -
CC PIR: A03207; C1HUCG.
CC PIR: S14351; S14351.
CC Genew: HGNC:1245; C1QC.
CC MIM: 120575; -
CC InterPro: IPR001073; C1q.
CC InterPro: IPR000087; Collagen.
CC Pfam: PF00386; C1q; 1.
CC PRINTS: PR00007; COMPLEMENTC1Q.
CC SMART: SM00110; C1Q; 1.
CC DR POSITE: PS01113; C1Q; 1.
CC KM Complement pathway: Plasma; Hydroxylation; Glycoprotein; Collagen;
CC Repeat: Signal: 1
CC SIGNAL 1 28
CC CHAIN 29 245
CC DOMAIN 31 112
CC FT 113 245
CC FT DISULFID 32 32
CC FT MOD_RES 36 36
CC FT MOD_RES 39 39
CC FT MOD_RES 42 42
CC FT MOD_RES 45 45
CC FT MOD_RES 54 54
CC FT MOD_RES 57 57
CC FT MOD_RES 63 63
CC FT MOD_RES 66 66
CC FT MOD_RES 71 71
CC FT MOD_RES 75 75
CC FT CARBOHYD 75 75
CC FT MOD_RES 81 81
CC FT MOD_RES 84 84
CC FT CARBOHYD 84 84
CC FT MOD_RES 93 93
CC FT MOD_RES 96 96
CC FT MOD_RES 99 99
CC FT MOD_RES 105 105
CC FT VARIANT 43 43
CC FT 14 14
CC FT CONFLICT 23 23
CC FT CONFLICT 57 57
CC FT CONFLICT 66 66
CC FT CONFLICT 72 72
CC FT CONFLICT 84 84
CC FT CONFLICT 87 87
CC FT CONFLICT 90 90
CC FT CONFLICT 215 215
CC SO SEQUENCE 245 AA; 25774 MW; FA1J117EB7ABFC12 CRC64;
Query Match 30.0%; Score 397; DB 1; Length 245;
Best Local Similarity 39.8%; Pred. No. 4e-21;
Matches 100; Conservative 33; Mismatches 84; Indels 34; Gaps 10;
QY 1 MRPLVLLILGLAAGSPRLDDNKRIPSLC---PCHPLPCTPGHHGSGLRGDRGRCRG 57
:::||||| | : : | ||||| | | |||| |

DB 13 LKLLLLLLLELR-----GQANTGCTGTPMGPLGARGKQDGLPGRKGPGRIPA 64

QY 58 APGARGEGGRPCLPGRGDPGRGAGPAGTPGAGECSSVP-----RSAFSA 108

DB 65 IPGIGPGRGQGERLPLPGRKNGMGRPGMPGVGPGIGEPGEGGRYKQKQFSVPTV 124

QY 109 KRSESRVPPSDAPLPEDRLVNEQGHYDAVTKTCQVPGVYFRAVATYRASLQFDL 168

DB 125 TR-OTHPAPNSLIRFNAVLNPGDDYTSKFTCKVPLGYFVYHAS-HTANLCVLL 182

QY 169 VKNQSGISAFQFPGCGKPRASL-SCGAMVRLPEPDQYVWVGVGDY---IGIYASIKTD 224

DB 183 YRSGVAVVT---ECGTSKTKNQVNSGVLLRLQVGEVW---LAVNDYIDMNGIOSS---D 234

QY 225 STFGSLVYSD 235

DB 235 SVFSGFLFPD 245

RESULT 12

CA18_RABIT STANDARD: PRT: 744 AA.

ID P14282;

AC 01-JAN-1990 (Rel. 13, Created)

DT 01-JAN-1990 (Rel. 13, Last sequence update)

DT 01-NOV-1995 (Rel. 32, Last annotation update)

DE Collagen alpha 1(VIII) chain precursor (Endothelial collagen).

CN COL6A1.

OS Oryctolagus cuniculus (Rabbit).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.

OC NCBI_Taxid=9986;

RN [1]

RP MEDLINE=89380199; PubMed=2476437;

RA Yamauchi N., Benya P.D., van der Rest M., Ninomiya Y.

RT "The cloning and sequencing of alpha 1(VIII) collagen cDNAs demonstrate that type VIII collagen is a short chain collagen and contains triple-helical and carboxyl-terminal non-triple-helical domains similar to those of type X collagen."

RT J. Biol. Chem. 264:16022-16029(1989).

CC -1- FUNCTION: MAJOR COMPONENT OF THE DESCENDING MEMBRANE (BASEMENT MEMBRANE) OF CORNEAL ENDOTHELIAL CELLS.

CC -1- SUBUNIT: MAY FORM HOMOTRIMERS, OR HETEROTRIMERS IN ASSOCIATION WITH ALPHA 2(VIII) TYPE COLLAGENS.

CC -1- PPM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.

CC -1- MISCELLANEOUS: FOUR CONSECUTIVE GLY-PRO-PRO TRIPLETS ARE PRESENT AT THE C-TERMINUS OF THE TRIPLE-HELICAL REGION. THESE MAY PROVIDE HIGH THERMAL STABILITY OF THIS REGION OF THIS REGION.

CC -1- SIMILARITY: STRONG. TO ALPHA 2 TYPES VIII AND X COLLAGENS.

CC -1- SIMILARITY: CONTAINS 1 C10 DOMAIN.

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CC EMBL: J05042; AAA31204.1;

CC PIR: A34246; A34246.

CC InterPro: IPR001073; C1q.

CC InterPro: IPR000087; Collagen.

CC Pfam: PF00386; C1q; 1.

CC Pfam: PF01391; Collagen; 8.

CC PRINTS: PR00007; COMPLEMNTC1Q.

CC SMART: SM00110; C1Q; 1.

CC PROSITE: PS0113; C1Q; 1.

DR Extracellular matrix; connective tissue; Repeat; Hydroxylation;

KW Glycoprotein; Cell adhesion; Collagen; Signal.

FT SIGNAL 1 20

FT CHAIN 21 744

FT DOMAIN 29 117

FT DOMAIN 118 571

FT DOMAIN 572 744

FT DOMAIN 609 744

FT DOMAIN 744 744

FT SEQUENCE 744 AA; 73358 MW; 2A8CE1E8274E99 CAC64;

Query Match 28.2%; Score 374; DB 1; Length 744;

Best Local Similarity 34.4%; Pred. NO. 4.7e-19;

Matches 93; Conservative 36; Mismatches 79; Indels 62; Gaps 8;

DB 24 IPSLC-EGHPLCPGCHHSGSLGPRGDRGARGAGGEGGRPCLP----- 74

DB 475 VPLGLPGRGEPGIPEDQGLGPRGIPGTYGSGRPGIPGKGPGLPGRGPPGVGK 534

QY 75 -----GPRGP---GPRGE---AGPAGPTPAGECSVPRS----- 104

DB 535 PGVAGLHGPGRGALGPGGPGGLPGRGPPGPPPPPPPPPPPPPPPPPPPPPPPP 594

QY 105 -----AFSAKRSRSHVP-----PPSDAPLPEDRLVNEQGHYDAVTKFT 144

DB 595 VTPPAVYAAKKKNGKNGRPAVEMPAFTALPAPPVGPAPIKPDRLLYNGRONYPTQGIT 654

QY 145 CQVPGVYFVAHATYRASLQFDLYKNQSGIA-SFQFPGCGKPRASLSGAMVRLPEPD 203

DB 655 CEVPGVYFVAHATYRASLQFDLYKNQSGIA-SFQFPGCGKPRASLSGAMVRLPEPD 712

QY 204 QVWVGVGDYIGIYASIKTDSFGSLY 233

DB 713 RVFLQMPSEDAAGLYAGYVHSSFSGLY 742

RESULT 13

COLE_LEPMA STANDARD: PRT: 419 AA.

ID COLE_LEPMA

AC P98085; Q91080;

DT 01-NOV-1995 (Rel. 32, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)

DT 15-JUL-1998 (Rel. 36, Last annotation update)

DE Inner ear-specific collagen precursor (Saccular collagen).

OS Lepomis macrochirus (Bluegill).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Perciformes; Percoidae; Centrarchidae; Lepomis.

OC NCBI_Taxid=13106;

RN [1]

RP MEDLINE=95167486; PubMed=7863331;

RA Davis J.G., Oberholzer J.C., Burns F.R., Greene M.T.

RT "Molecular cloning and characterization of an inner ear-specific structural protein."

RT Science 267:1031-1034(1995).

CC -1- FUNCTION: FORMS A MICROSTRUCTURAL MATRIX WITHIN THE OTOLITHIC SUBMITTED (MAR-1995) TO THE SWISS-PROT data bank.

CC -1- TISSUE SPECIFICITY: SPECIALIZED SECRETORY SUPPORTING CELLS AT THE OUTER PERIMETER OF THE SACCULAR EPITHELIUM.

CC -1- SIMILARITY: CONTAINS 1 C10 DOMAIN.

CC -1- CAUTION: THIS IS A CONCEPTUAL TRANSLATION; A FRAMESHIFT HAD TO BE INTRODUCED FOR POSITIONS 391-419 SO AS TO MAXIMIZE THE SIMILARITY WITH OTHER SHORT-CHAIN COLLAGENS.

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CC EMBL: U17431; AAA69978.1; ALT_FRAME.
DR InterPro: IPR001073; Clq.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; Clq; 1.
DR Pfam: PF01391; Collagen; 3.
DR PRINTS: PR00007; COMPLEMENTC1Q.
DR SMART: SM00110; C1Q; 1.
DR PROSITE: PS01113; C1Q; 1.
KW Extracellular matrix; Repeat; Collagen; Signal.
FT SIGNAL 1 19
FT CHAIN 1 19
FT DOMAIN 20 57
FT DOMAIN 58 274
FT DOMAIN 275 419
FT DOMAIN 272 419
FT CARBOHYD 37 37
FT CARBOHYD 320 320
FT CARBOHYD 419 AA; 43634 MW; 570CDB9675FC0F39 CRC64;
SQ SEQUENCE 419 AA; 43634 MW; 570CDB9675FC0F39 CRC64;

Query Match 28.28; Score 373; DB 1; Length 419;
Best Local Similarity 37.58; Pred. No. 3.1e-19;
Matches 96; Conservative 23; Mismatches 99; Indels 38; Gaps 6;

OY 15 GSPPLDNNK--IPSLCPGHGCLPCTPGHSGQLRGR--DGRDRDAPARPGKGGGR 70
DB 157 GEPGLKNTKSGISGREGPMGRLAKGLKGGGLGCEKGERPPRGCGMGLNGT 216
OY 71 PGLRPGRRGRRP-----RGAPRPGTGPAGCSV 100
DB 217 DGVGGERGPRGLGCKGDTGARGPRPGGKMGALGCKGKLVRRPRGRRGPGSSVE 276
OY 101 PPRSAFSAKSSSESVPPPSDAPLPEDRVLVNEGCHDAVTKETQGVYFAVHAATVY 160
DB 277 QIRSAFSGVGLPEPSFPPSLPVKFDKVFYNGEGHMDPTLNKEFVTVPGVLFESYHITVR 336
OY 161 RASLQFOLVNGC-ESISFQFEGGKPKPASLSGCAVRLPEDEQVNVQVGVGIGIYA 219
DB 337 NRPVRAALVYNGVAKKLTROSLTGQDIDQA--SNLALLHLTGQVLETL-LRWNGXYS 393
OY 220 SIKTSTFSGFLVYSD 235
DB 394 SSEDSTFSGFLVYPD 409

RESULT 14
CA18_HUMAN STANDARD; PRT; 744 AA.
AC P27658; 096D07;
DT 01-AUG-1992 (Rel. 23, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Collagen alpha 1(VIII) chain precursor (Endothelial collagen).
GN COL8A1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP MEDLINE=91231001; PubMed=2029894;
RX Muragaki Y., Mattei M.-G., Yamaguchi N., Olsen B.R., Ninomiya Y.;
RT "The complete primary structure of the human alpha 1 (VIII) chain and
RT assignment of its gene (COL8A1) to chromosome 3.";
RL Eur. J. Biochem. 197;615-622(1991).
RN [2]
RP SEQUENCE FROM N.A.
RC Tissue=Lung;
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: MAJOR COMPONENT OF THE DESCENDING MEMBRANE (BASEMENT
CC MEMBRANE) OF CORNEAL ENDOTHELIAL CELLS.
CC -1- SUBUNIT: MAY FORM HOMOTRIMERS, OR HETEROTRIMERS IN ASSOCIATION

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CC WITH ALPHA 2(VIII) TYPE COLLAGENS.
CC -1- PFM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- MISCELLANEOUS: FOUR CONSECUTIVE GLY-PRO-PRO TRIPLETS ARE PRESENT
CC AT THE C-TERMINUS OF THE TRIPLE-HELICAL REGION. THESE MAY PROVIDE
CC THE HIGH THERMAL STABILITY OF THIS REGION.
CC -1- SIMILARITY: STRONG, TO ALPHA 2 TYPES VIII AND X COLLAGENS.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC THIS SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.ebi.ac.uk/announcements/
CC or send an email to license@ebi.ac.uk).
CC -----
DR EMBL: X57527; CAA40748.1; -.
DR EMBL: BC013581; AAH13581.1; -.
DR PIR: S15435; S15435.
DR Genbank: HGNC:2215; COL8A1.
DR MIM: 120251; -.
DR InterPro: IPR001073; Clq.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; Clq; 1.
DR Pfam: PF01391; Collagen; 8.
DR PRINTS: PR00007; COMPLEMENTC1Q.
DR Prodom: PD000007; Collagen; 1.
DR SMART: SM00110; C1Q; 1.
DR PROSITE: PS01113; C1Q; 1.
KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
KW Glycoprotein; Cell adhesion; Collagen; Signal.
FT SIGNAL 1 28
FT CHAIN 29 744
FT DOMAIN 29 117
FT DOMAIN 118 571
FT DOMAIN 572 744
FT DOMAIN 609 744
FT DOMAIN 626 744
FT CONFLICT 297 297
FT CONFLICT 297 297
FT CONFLICT 344 344
FT CONFLICT 382 382
FT CONFLICT 388 388
FT CONFLICT 454 454
FT CONFLICT 464 464
FT CONFLICT 601 601
FT CONFLICT 631 631
SQ SEQUENCE 744 AA; 73364 MW; 2BC1B0955DE2C9A3 CRC64;

Query Match 27.88; Score 368; DB 1; Length 744;
Best Local Similarity 33.38; Pred. No. 1.2e-18;
Matches 90; Conservative 34; Mismatches 84; Indels 62; Gaps 6;

OY 24 IPSLCPGHGCLPCTPGHSGQLRGR--DGRDRDAPARPGKGGGRGLP----- 74
DB 475 VPEGLRPPKGRGRLGQGLDGRGRLPGIGRSPRIGPRGIGKGRGLRPGRPGIGK 534
OY 75 -----GPRGDRPGRGEGAPGTCGP-----AGECS 99
DB 535 PGVAGLHGRPGKCGALPGQGRGLRPPRPGRRGPRGPRVAVRPTRPPGCEVLRPMGLGIDG 594
OY 100 VPPRSFSAKSSSRVP-----PPSDAPLPEDRVLVNEGCHDAVTKETQ 144
DB 595 VKPRNAVYAKKCGNGGPAVEMPAFTAEETAPRPVAVKFNKLTLYNGRQNYNPOTGIET 654
OY 145 CQVGVYFAVNAHTVYRASLQFOLVNGESIA-SFQFQFGKPKPASLSGCAVRLPEDE 203
DB 655 CEVPGYTVFAVYHNGCGGNGVWALFKNNEPVMYTVIDEIKKGLDQA--SGSAVLLLRPGD 712
OY 204 QVWVGVGVVDYIGIVASIKTSTFSGFLVY 233
DB 713 RVFLQWPSQAGLVAGVGVYHSSFSGLYLY 742

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RESULT 15
CA18_MOUSE STANDARD; PRT; 743 AA.
AC 000780; Q9D2V4;
DT 01-NOV-1995 (Rel. 32, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Collagen alpha 1(VIII) chain precursor.
GN COL8A1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-BALB/C;
RX MEDLINE=92362626; PubMed=1499564;
RA Muragaki Y., Shiota C., Inoue M., Ooshima A., Olsen B.R.,
RA Minomura Y.,
RA "Alpha 1(VIII)-collagen gene transcripts encode a short-chain
RT collagen polypeptide and are expressed by various epithelial,
RT endothelial and mesenchymal cells in newborn mouse tissues.";
RL Eur. J. Biochem. 207:895-902(1992).
[2]
RP SEQUENCE FROM N.A.
RC STRAIN-C57BL/6J; TISSUE=Kidney;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinaigawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arkawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Alzawa K., Iwata M., Mishi K., Kiyosawa H., Kondo S., Yamana K.,
RA Saito T., Okazaki H., Gojobori T., Bono H., Ksukawa T., Saito R.,
RA Fleischnann W., Gaestelund T., Gissi C., King B., Kochwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schirral L.M., Staubli F., Suzuki R., Tomita M., Wagner I., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., But C., Fletcher C., Fujita A., Kamliya M., Lee N.H.,
RA Gustlincich S., Hill D., Hofmann M., Hume D.A., Kamliya M., Lee N.H.,
RA Lyons P., Matchonni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nodone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seva T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wyshna-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kontski S.,
RA Hayashizaki Y.;
RT *Functional annotation of a full-length mouse cDNA collection.*;
RL Nature 409:685-690(2001).
CC -1- FUNCTION: MAJOR COMPONENT OF THE DESCENDING MEMBRANE (BASEMENT
CC MEMBRANE) OF CORNEAL ENDOTHELIAL CELLS.
CC -1- SUBUNIT: MAY FORM HOMOTRIMERS, OR HETEROTRIMERS IN ASSOCIATION
CC WITH ALPHA 2(VIII) TYPE COLLAGENS.
CC -1- TISSUE SPECIFICITY: HIGH LEVELS IN CALVARIUM, EYE & SKIN OF
CC MEMBRAN MICE; ALSO IN VARIOUS EPITHELIAL, ENDOTHELIAL AND
CC MESENCHYMAL CELLS.
CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- SIMILARITY: STRONG, TO ALPHA 2 TYPES VIII AND X COLLAGENS.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC use by non-profit institutions as long as its content is in no way
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CC or send an email to license@sib-sib.ch)
CC -----
CC EMBL: X66976; CAA47387.1;
CC EMBL: X66977; CAA47387.1; JOINED.
CC EMBL: AK018742; BAB31383.1;
CC PIR: S23779; S23779.
CC MGI: 88463; Col8a1.

DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR Pfam: PF01381; Collagen; 7.
DR PRINTS: PR00007; COMPLEMENTC1Q.
DR SMART: SM00110; C1Q; 1.
DR PROSITE: PS01113; C1Q; 1.
KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
KW Glycoprotein; Cell adhesion; Collagen; Signal.
FT SIGNAL 1 28
FT CHAIN 29 743
FT DOMAIN 29 117
FT DOMAIN 118 571
FT DOMAIN 572 743
FT DOMAIN 608 743
FT CONFLICT 6 6
FT CONFLICT 85 85
FT CONFLICT 109 109
FT CONFLICT 248 248
FT CONFLICT 313 313
FT CONFLICT 323 324
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FT CONFLICT 596 596
FT CONFLICT 717 719
SQ SEQUENCE 743 AA; 73454 MW; F584D85BD53897E4 CRC64;
Query Match 27.7%; Score 366.5; DB 1; Length 743;
Best Local Similarity 32.8%; Pred. No. 1.5e-18;
Matches 90; Conservative 36; Mismatches 77; Indels 71; Gaps 7;
OY 29 PGHGLGTGTHHSGQLPGRDGRDGAFAFGKGEGRGRLPGRCPD-----80
DB 470 PGLPGVGLGPKKEPGLPGGGLGPGGPGIGVSPGSLPGIPGPKGEPGLPGPGF 529
OY 81 -----GPRGE---AGRAPTPAGCSPPR-----103
DB 530 PGVGPVAGLHGPRGALPGOGPOLPPPPPPGPPAVPTSPGEGYLPDNGL 589
OY 104 -----SAFSAR-----SSRPV-PPSDAPLPDRVLVNEQGYDAVT 140
DB 590 GIDGVKTPHAYAGKKGKIGGAYEMPFAFTALRYTFFPVGAPVAFDKLLNGRQVNT 649
OY 141 GKTCQVPGVYVFAVHATVYRASLQFDLYKNGESIA-SFGQFGGMPKRPASLGGAVRL 199
DB 650 GIFTCEVGVYVFAVHVCKGQVWVAFKNNRPMYTYDEYKKGFLDQA--SGSAVLL 707
OY 200 EPEDQVWVGVGVGYIGIYASIKTDSFGFLY 233
DB 708 RPDQVFLQMPSEQAAGLYAGQVYHSSFSGYLL 741

Search completed: June 18, 2003, 14:53:00
Job time : 24 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 18, 2003, 14:49:37 ; Search time 26 Seconds
(Without alignments)
274.991 Million cell updates/sec

Title: US-09-943-851A-42

Perfect score: 1325

Sequence: 1 MRPLVLVLLGLAAGSPPLD.....DSTFGSEFLVSDWHSVPFA 243

Scoring table: BLOSUM62

Gapop 10.0 , Capext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2.6/prodata/1/laa/5A.COMB.pep:*
2: /cgn2.6/prodata/1/laa/5B.COMB.pep:*
3: /cgn2.6/prodata/1/laa/6A.COMB.pep:*
4: /cgn2.6/prodata/1/laa/6B.COMB.pep:*
5: /cgn2.6/prodata/1/laa/PCTUS.COMB.pep:*
6: /cgn2.6/prodata/1/laa/backfilest1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed.
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1325	100.0	243	4	US-09-140-804-2
2	1325	100.0	243	4	US-09-336-536-3
3	1271	95.9	243	4	US-09-188-930-295
4	1258	94.9	243	4	US-09-336-536-10
5	1256	94.8	228	4	US-09-336-536-4
6	1200	90.6	228	4	US-09-336-536-11
7	675	50.9	128	4	US-09-336-536-7
8	650	49.1	138	4	US-09-336-536-14
9	433.5	32.7	247	2	US-08-463-911-2
10	428.5	32.3	247	4	US-09-140-804-8
11	428.5	32.3	247	4	US-09-118-408-3
12	428.5	32.3	247	4	US-09-506-855-3
13	424	32.0	244	2	US-08-463-911-7
14	424	32.0	244	4	US-09-140-804-3
15	424	32.0	244	4	US-09-336-536-20
16	424	32.0	244	4	US-09-530-423-1
17	417	31.5	231	4	US-09-530-423-2
18	412	31.1	246	2	US-08-463-911-4
19	399	30.1	294	4	US-09-188-930-294
20	347	26.2	60	4	US-09-336-536-6
21	324	24.5	60	4	US-09-336-536-13
22	316	23.8	423	1	US-08-383-744-2
23	316	23.8	423	2	US-08-999-336-2
24	316	23.8	423	5	PCT-US96-01427-2
25	280.5	21.2	215	4	US-09-140-804-4
26	280.5	21.2	215	4	US-09-140-804-5
27	277.5	20.9	185	2	US-08-463-911-3

28	276	20.8	236	4	US-09-140-804-6	Sequence 6, Appl1
29	266.5	20.1	198	4	US-09-188-930-138	Sequence 138, App
30	257.5	19.4	130	4	US-09-485-316A-13	Sequence 13, Appl
31	251.5	19.0	130	4	US-09-485-316A-12	Sequence 12, Appl
32	243.5	18.4	130	4	US-09-485-316A-11	Sequence 11, Appl
33	240	18.1	161	4	US-09-415-551-3	Sequence 3, Appl1
34	229.5	17.3	280	4	US-09-247-155-178	Sequence 178, App
35	229.5	17.3	281	4	US-09-118-408-2	Sequence 2, Appl1
36	229.5	17.3	281	4	US-09-506-855-2	Sequence 2, Appl1
37	228	17.2	684	1	US-08-555-669-12	Sequence 12, Appl
38	228	17.2	684	3	US-09-073-663-12	Sequence 12, Appl
39	224	16.9	228	4	US-09-219-849-38	Sequence 38, Appl
40	223	16.8	281	4	US-09-118-408-44	Sequence 44, Appl
41	223	16.8	281	4	US-09-506-855-44	Sequence 44, Appl
42	221	16.7	124	4	US-09-485-316A-9	Sequence 9, Appl1
43	219.5	16.6	1057	3	US-08-931-820-4	Sequence 4, Appl1
44	219.5	16.6	1078	3	US-08-963-825-21	Sequence 21, Appl
45	219.5	16.6	1078	4	US-09-500-811-21	Sequence 21, Appl

ALIGNMENTS

```
RESULT 1
US-09-140-804-2
: Sequence 2, Application US/09140804
: Patent No. 6197930
: GENERAL INFORMATION:
: APPLICANT: Sheppard, Paul O.
: TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
: FILE REFERENCE: 97-49
: CURRENT APPLICATION NUMBER: US/09/140, 804
: CURRENT FILING DATE: 1998-08-26
: EARLIER APPLICATION NUMBER: 60/056, 983
: EARLIER FILING DATE: 1997-08-26
: NUMBER OF SEQ ID NOS: 47
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 2
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-140-804-2

Query Match      100.0%; Score 1325; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 9, 5e-114;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRPLVLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGPAG 60
Db      1 MRPLVLVLLGLAAGSPPLDNNKIPSLCPGHPGLPTGPHHGSQGLPGRDGRDGPAG 60

QY      61 APGEKGGGRGRLPGPRGDCPRGEGAPAGPTGAGCCSVPRSAFSAKSESHPSPSD 120
Db      61 APGEKGGGRGRLPGPRGDCPRGEGAPAGPTGAGCCSVPRSAFSAKSESHPSPSD 120

QY      121 APLEPFDVNLNEGCHYAVNGKFTQCPVGYFFVAVHTVVRASQFDLVNKGESIASFQ 180
Db      121 APLEPFDVNLNEGCHYAVNGKFTQCPVGYFFVAVHTVVRASQFDLVNKGESIASFQ 180

QY      181 FFGGMPRPASISGAMVRLPEDDQVWQVGVGVIGIYASIKTSTFGFLVSDWHSPP 240
Db      181 FFGGMPRPASISGAMVRLPEDDQVWQVGVGVIGIYASIKTSTFGFLVSDWHSPP 240

QY      241 VFA 243
Db      241 VFA 243

RESULT 2
US-09-336-536-3
: Sequence 3, Application US/09336536
: Patent No. 6406884
```

GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336.536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-3

Query Match 100.0%; Score 1325; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 9.5e-114;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGGLPGRDGRDGCAPG 60
QY 61 APGEKGGGRPGLPGPRGDPGRGEAGPACPTGACGCSVPPRSATSAKRSSESRVPPSD 120
DB 61 APGEKGGGRPGLPGPRGDPGRGEAGPACPTGACGCSVPPRSATSAKRSSESRVPPSD 120
QY 121 APLPFDVLLNEGHDVATGKFTCOVPGVYFAVHATVYRASLOPDLVKNGSIASFFQ 180
DB 121 APLPFDVLLNEGHDVATGKFTCOVPGVYFAVHATVYRASLOPDLVKNGSIASFFQ 180
QY 181 FFGWMPKPAASLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSYFSGLVYSDMHSSP 240
DB 181 FFGWMPKPAASLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSYFSGLVYSDMHSSP 240

QY 241 VFA 243
DB 241 VFA 243

RESULT 3
US-09-188-930-295
Sequence 295, Application US/09188930A
Patent No. 6150502
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Streahan, Lorina
APPLICANT: Sleeman, Matthew
APPLICANT: Murlson, James Greg
TITLE OF INVENTION: Compositions Isolated from Skin Cells
FILE REFERENCE: 11000.1011C1
CURRENT APPLICATION NUMBER: US/09/188.930A
CURRENT FILING DATE: 1998-11-09
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 295
LENGTH: 243
TYPE: PRT
ORGANISM: Rat
US-09-188-930-295

Query Match 95.9%; Score 1271; DB 4; Length 243;
Best Local Similarity 95.1%; Pred. No. 8.2e-109;
Matches 231; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGGLPGRDGRDGCAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGGLPGRDGRDGCAPG 60
QY 61 APGEKGGGRPGLPGPRGDPGRGEAGPACPTGACGCSVPPRSATSAKRSSESRVPPSD 120

DB 61 APGEKGGGRPGLPGPRGDPGRGEAGPACPTGACGCSVPPRSATSAKRSSESRVPPSD 120
QY 121 APLPFDVLLNEGHDVATGKFTCOVPGVYFAVHATVYRASLOPDLVKNGSIASFFQ 180
DB 121 APLPFDVLLNEGHDVATGKFTCOVPGVYFAVHATVYRASLOPDLVKNGSIASFFQ 180
QY 181 FFGWMPKPAASLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSYFSGLVYSDMHSSP 240
DB 181 FFGWMPKPAASLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSYFSGLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 4
US-09-336-536-10
Sequence 10, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336.536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 10
LENGTH: 243
TYPE: PRT
ORGANISM: Mus musculus
US-09-336-536-10

Query Match 94.9%; Score 1258; DB 4; Length 243;
Best Local Similarity 93.8%; Pred. No. 1.3e-107;
Matches 228; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGGLPGRDGRDGCAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGGLPGRDGRDGCAPG 60
QY 61 APGEKGGGRPGLPGPRGDPGRGEAGPACPTGACGCSVPPRSATSAKRSSESRVPPSD 120
DB 61 APGEKGGGRPGLPGPRGDPGRGEAGPACPTGACGCSVPPRSATSAKRSSESRVPPSD 120
QY 121 APLPFDVLLNEGHDVATGKFTCOVPGVYFAVHATVYRASLOPDLVKNGSIASFFQ 180
DB 121 APLPFDVLLNEGHDVATGKFTCOVPGVYFAVHATVYRASLOPDLVKNGSIASFFQ 180
QY 181 FFGWMPKPAASLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSYFSGLVYSDMHSSP 240
DB 181 FFGWMPKPAASLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSYFSGLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 5
US-09-336-536-4
Sequence 4, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
APPLICANT: Bossone, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336.536
CURRENT FILING DATE: 1999-06-18

NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 228
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-336-536-4

Query Match 94.8%; Score 1256; DB 4; Length 228;
Best Local Similarity 100.0%; Pred. No. 1.8e-107;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

16 SPPLDNKTPSLCPGHPGLPGTPGHHGSGCLPGRDRDCAAPGAPGEGGGRPLPG 75
|||||
1 SPPLDNKTPSLCPGHPGLPGTPGHHGSGCLPGRDRDCAAPGAPGEGGGRPLPG 60
76 PRGDDPGRGEGAGPAGTGTGAGCSPVPRSAFSAKRSSESRVPPSDAPLPFDRVLVNEQGH 135
|||||
61 PRGDDPGRGEGAGPAGTGTGAGCSPVPRSAFSAKRSSESRVPPSDAPLPFDRVLVNEQGH 120
DB 136 YDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFFQFGGMPKPRASLSGA 195
|||||
121 YDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFFQFGGMPKPRASLSGA 180
QY 196 MWRLPEDDQVWVOVGVDYIGIYASIKTSTSGFLVYSDMHSSPVFA 243
|||||
DB 181 MWRLPEDDQVWVOVGVDYIGIYASIKTSTSGFLVYSDMHSSPVFA 228

RESULT 6

US-09-336-536-11
; Sequence 11, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336, 536
; CURRENT FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 228
; TYPE: PRF
; ORGANISM: Mus musculus
US-09-336-536-11

Query Match 90.6%; Score 1200; DB 4; Length 228;
Best Local Similarity 94.7%; Pred. No. 2.4e-102;
Matches 216; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

16 SPPLDNKTPSLCPGHPGLPGTPGHHGSGCLPGRDRDCAAPGAPGEGGGRPLPG 75
|||||
1 SPPLDNKTPSLCPGHPGLPGTPGHHGSGCLPGRDRDCAAPGAPGEGGGRPLPG 60
QY 76 PRGDDPGRGEGAGPAGTGTGAGCSPVPRSAFSAKRSSESRVPPSDAPLPFDRVLVNEQGH 135
|||||
61 PRGDDPGRGEGAGPAGTGTGAGCSPVPRSAFSAKRSSESRVPPSDAPLPFDRVLVNEQGH 120
DB 136 YDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFFQFGGMPKPRASLSGA 195
|||||
121 YDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVKNGESIASFFQFGGMPKPRASLSGA 180
QY 196 MWRLPEDDQVWVOVGVDYIGIYASIKTSTSGFLVYSDMHSSPVFA 243
|||||
DB 181 MWRLPEDDQVWVOVGVDYIGIYASIKTSTSGFLVYSDMHSSPVFA 228

RESULT 7

US-09-336-536-7
; Sequence 7, Application US/09336536

Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336, 536
; CURRENT FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 128
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-336-536-7

Query Match 50.9%; Score 675; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 1.2e-54;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 105 AFSARSESRRVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVPGVYFFAVHATVYRASL 164
|||||
DB 1 AFSARSESRRVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVPGVYFFAVHATVYRASL 60
QY 165 QFDLVKNGESIASFFQFGGMPKPRASLSGAMVRLPEDDQVWVOVGVDYIGIYASIKTD 224
|||||
DB 61 QFDLVKNGESIASFFQFGGMPKPRASLSGAMVRLPEDDQVWVOVGVDYIGIYASIKTD 120
QY 225 STFSGFLV 232
|||||
DB 121 STFSGFLV 128

RESULT 8

US-09-336-536-14
; Sequence 14, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336, 536
; CURRENT FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 128
; TYPE: PRF
; ORGANISM: Mus musculus
US-09-336-536-14

Query Match 49.1%; Score 650; DB 4; Length 128;
Best Local Similarity 94.5%; Pred. No. 2.3e-52;
Matches 121; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 105 AFSARSESRRVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVPGVYFFAVHATVYRASL 164
|||||
DB 1 AFSARSESRRVPPSDAPLPFDRVLVNEQGHYDAVTGKFTCOVPGVYFFAVHATVYRASL 60
QY 165 QFDLVKNGESIASFFQFGGMPKPRASLSGAMVRLPEDDQVWVOVGVDYIGIYASIKTD 224
|||||
DB 61 QFDLVKNGESIASFFQFGGMPKPRASLSGAMVRLPEDDQVWVOVGVDYIGIYASIKTD 120
QY 225 STFSGFLV 232
|||||
DB 121 STFSGFLV 128

RESULT 9

US-08-463-911-2

Sequence 2, Application US/08463911
Patent No. 5869330
GENERAL INFORMATION:
APPLICANT: Scherer, Philipp E.
APPLICANT: Lodish, Harvey F.
TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millitia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,911
CLASSIFICATION: 530
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Granahan, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: WH195-05
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 247 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-463-911-2

Query Match 32.7%; Score 433.5; DB 2; Length 247;
Best Local Similarity 40.6%; Pred. No. 3,4e-32;
Matches 102; Conservative 32; Mismatches 92; Indels 25; Gaps 8;

QY 1 MRPLVLALL-GLAAGSPPLDNNKIPSLCPGHPG-----LPGTGHHGSGCLPGRDGRD 54
DB 4 LQALLFLILPSHAEDDVTTEELAPALVPPPKCTCAGMMAGIGHGHNGTGRDGRD- 62
QY 55 RDGAPGAPGEGEGRGGLPGPRDGP-----PGPRGEGAPGPPGRCGECVPPRSA 105
DB 63 -----GTPGEGEGEGDGLGPKGTGDMGTGAEGRGPPGTPGRKGECEAAVMYRSA 117
QY 106 FSAKRSRVPPEPSDAPLPEDRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYRASLQ 165
DB 118 FSV-GLETRVTV-PNVIRFTKIFYNOONHYDSTGKFCYNIPGLYFSYHITYYMDVK 175
QY 166 FDLVKNESIASFPQFGGKMPKPSLSGAMVRLPEPDQVWVQV-GVGDYIGIYASIKTD 224
DB 176 VSLFKKKRAVLEFYDYQOE-KNVDAQSGSVLHLEVDQWVLQVYGGDHHGLVADNVND 234
QY 225 STEFGFLVSD 235
DB 235 STEFGFLVHD 245

RESULT 10
US-09-140-804-8
Sequence 8, Application US/09140804
Patent No. 6197930
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
APPLICANT: Humes, Jacqueline M.
TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
FILE REFERENCE: 97-49

CURRENT APPLICATION NUMBER: US/09/140,804
CURRENT FILING DATE: 1998-08-26
EARLIER APPLICATION NUMBER: 60/056,983
EARLIER FILING DATE: 1997-08-26
NUMBER OF SEQ ID NOS: 47
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 8
LENGTH: 247
TYPE: PRT
ORGANISM: Homo sapiens
US-09-140-804-8

Query Match 32.3%; Score 428.5; DB 4; Length 247;
Best Local Similarity 40.2%; Pred. No. 9,7e-32;
Matches 101; Conservative 32; Mismatches 93; Indels 25; Gaps 8;

QY 1 MRPLVLALL-GLAAGSPPLDNNKIPSLCPGHPG-----LPGTGHHGSGCLPGRDGRD 54
DB 4 LQALLFLILPSHAEDDVTTEELAPALVPPPKCTCAGMMAGIGHGHNGTGRDGRD- 62
QY 55 RDGAPGAPGEGEGRGGLPGPRDGP-----TGPAEGECVPPRSA 105
DB 63 -----GTPGEGEGEGDGLGPKGTGDMGTGAEGRGPPGTPGRKGECEAAVMYRSA 117
QY 106 FSAKRSRVPPEPSDAPLPEDRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYRASLQ 165
DB 118 FSV-GLETRVTV-PNVIRFTKIFYNOONHYDSTGKFCYNIPGLYFSYHITYYMDVK 175
QY 166 FDLVKNESIASFPQFGGKMPKPSLSGAMVRLPEPDQVWVQV-GVGDYIGIYASIKTD 224
DB 176 VSLFKKKRAVLEFYDYQOE-KNVDAQSGSVLHLEVDQWVLQVYGGDHHGLVADNVND 234
QY 225 STEFGFLVSD 235
DB 235 STEFGFLVHD 245

RESULT 11
US-09-118-408-3
Sequence 3, Application US/09118408A
Patent No. 6265544
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
FILE REFERENCE: 97-30
CURRENT APPLICATION NUMBER: US/09/118,408A
CURRENT FILING DATE: 1998-07-17
EARLIER APPLICATION NUMBER: 60/053,154
EARLIER FILING DATE: 1997-07-18
NUMBER OF SEQ ID NOS: 47
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 247
TYPE: PRT
ORGANISM: Homo sapiens
US-09-118-408-3

Query Match 32.3%; Score 428.5; DB 4; Length 247;
Best Local Similarity 40.2%; Pred. No. 9,7e-32;
Matches 101; Conservative 32; Mismatches 93; Indels 25; Gaps 8;

QY 1 MRPLVLALL-GLAAGSPPLDNNKIPSLCPGHPG-----LPGTGHHGSGCLPGRDGRD 54
DB 4 LQALLFLILPSHAEDDVTTEELAPALVPPPKCTCAGMMAGIGHGHNGTGRDGRD- 62
QY 55 RDGAPGAPGEGEGRGGLPGPRDGP-----TGPAEGECVPPRSA 105
DB 63 -----GTPGEGEGEGDGLGPKGTGDMGTGAEGRGPPGTPGRKGECEAAVMYRSA 117
QY 106 FSAKRSRVPPEPSDAPLPEDRVLVNEQGHYDAVTGKFTCOVPGVYFAVAHATYRASLQ 165
DB 118 FSV-GLETRVTV-PNVIRFTKIFYNOONHYDSTGKFCYNIPGLYFSYHITYYMDVK 175

QY	166	FDVYKNGKSLASFEQFGFMGPKRPAISLGGAWRLPEEQWVWY-GVGYDIGYASIKTD	224
		:::	
Db	176	VSLFKKDKAVLFYDQYE-KNVDASSGVLLHLEVGQVWLQYGGDDHNGILADNVND	234
		:::	
QY	225	STFGSLVYSD	235
		:::	
Db	235	STFGSLVTHD	245

```

RESULT 12
US-09-506-855-3
: Sequence 3, Application US/09506855
: Patent No. 6448321
: GENERAL INFORMATION:
: APPLICANT: Sheppard, Paul O.
: APPLICANT: Lasser, Gerald W.
: TITLE OF INVENTION: INHIBITORS FOR USE IN HEMOSTASIS AND
: TITLE OF INVENTION: IMMUNE FUNCTION
: FILE REFERENCE: 99-12
: CURRENT APPLICATION NUMBER: US/09/506,855
: CURRENT FILING DATE: 2000-02-17
: NUMBER OF SEQ ID NOS: 50
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 3
: LENGTH: 247
: TYPE: PRT
: ORGANISM: Mus saplen
: US-09-506-855-3

```

Query Match	32.3%	Score 428.5	DB 4	Length 247
Best Local Similarity	40.2%	Pred. No. 9.7e-32		
Matches 101	Conservative 32	Mismatches 93	Indels 25	Gaps 8

QY	1	MRPLVLLLL-GLAAGSRPLDNDKIPSTLCRGNP-----LPQTRGNSGGILPCRGDRGD	54
Db	4	LQALLLLILPSNHEDDVTTTEELARALVUPRRKCSAQMAGIRGNPNNSRPGDRD-	62
QY	55	RDGAPGARGEGEGGRCPLPGRPCDRGRCAGRAGP-----TPRAGCSVPRSA	105
Db	63	-----GTRPEGKGDAGILGRCRKETGVGVTGAGDNGRPFQTRGRKKEPRERAAATMYS	117
QY	106	FSAKRSSRPRPESDAPLEFDRLVNEQGNDAVTGKTCQVPGVYUFAVNAATVRS	165
Db	118	FSV-GLETRATVP-NVPRFRTKIRYVNOONHNDGSGTKFYCNIPGLYFESYHITVYMK	175
QY	166	FDLVKNGESIAFFQFGCGWPKPASTLSGAVATRELEDEQVWVU-GVQDYGITATYSIK	224
Db	176	VSLFKKQKAVLFYTDQYQ--KNVDQASGSVLLHLEVGQVWLQYGGDDHNGSLADANN	234
QY	225	STPGSLFYSD	235
Db	235	STPGSLFYSD	245

RESULT 13
 US-08-463-911-7
 : Sequence 7, Application US/08463911
 : Patent No. 5865330
 :
 : GENERAL INFORMATION:
 :
 : APPLICANT: Scherer, Philipp E.
 : APPLICANT: Lodish, Harvey F.
 : TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED
 : TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES
 : NUMBER OF SEQUENCES: 7
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
 :
 : STREET: Two Militta Drive
 : CITY: Lexington
 : STATE: Massachusetts
 : COUNTRY: USA
 : ZIP: 02173
 :
 : COMPUTER READABLE FORM:

```

1      MEDIUM TYPE: Floppy disk
2      COMPUTER: IBM PC compatible
3      OPERATING SYSTEM: PC-DOS/MS-DOS
4      SOFTWARE: PatentIn Release #1.0, Version #1.30
5      CURRENT APPLICATION DATA:
6      APPLICATION NUMBER: US/08/463,911
7      FILING DATE:
8      CLASSIFICATION: 530
9      ATTORNEY/AGENT INFORMATION:
10     NAME: Granahan, Patricia
11     REGISTRATION NUMBER: 32,227
12     REFERENCE/DOCKET NUMBER: WH195-05
13     TELECOMMUNICATION INFORMATION:
14     TELEPHONE: (617) 861-6240
15     TELEFAX: (617) 861-9540
16     INFORMATION FOR SEQ ID NO: 7:
17     SEQUENCE CHARACTERISTICS:
18     LENGTH: 244 amino acids
19     TYPE: amino acid
20     TOPOLOGY: linear
21     MOLECULE TYPE: protein
22     US-08-463-911-7

```

Query Match	32.0%; Score 424; DB 2; Length 244;
Best Local Similarity	40.5%; Pred. No. 2,5e-31;
Matches	106; Conservative 26; Mismatches 72; Indels 58; Gaps 10;
QY	6 VLLLLGLAAGSPPLDNDKIPSLCPGH-----PG-----LPQTEGHNSQ 44.
Db	7 VLLLLAL-----PGHNOETTTGSGVLLPLPKAGCATGMAIGIRPEGHN 50
QY	45 GLPRDGRDGRDAGAPAGEKEGEGRPGLPRPRD-----PGRGEAGRAPRTGA 95
Db	51 GAGRDGRD-----GTPEKEGEGRGDGLIRPKDIDGTYGPAAGRGPFQIGRKCEP 104
QY	96 GEGCVPRPSAFSAKRSERVPPEPSDAPLEPDRVLVNEGCHDAVTGKTCQVPGVYTHAV 155
Db	105 GEGAYVYRSASAV--GLETTYIIP--NMPIRFPKIEYNOONHYDGSATGKHCNIPGLYYAY 162
QY	156 HATVYRASLOPDLVKNGES--IASFFQFGGKMPKASLSCGAMVRLPEPDDVWVQV--GVD 213
Db	163 HITVYMKDVKSLFKKKOKAMLFYTDQYQENNVDDA--SGSVLLHLEVDQYWLQYVGGGE 220
QY	214 YIGITYASIKTDSTFSGLVYSD 235
Db	221 RNLGYLADNDNDSTFTGFLLYHD 242

```

RESULT 14
US-09-140-804-3
: Sequence 3, Application US/09140804
: Patent No. 6197930
: GENERAL INFORMATION:
: APPLICANT: Sheppard, Paul O.
: APPLICANT: Humes, Jacqueline M.
: TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
: FILE REFERENCE: 97-49
: CURRENT APPLICATION NUMBER: US/09/140,804
: CURRENT FILING DATE: 1998-08-26
: EARLIER APPLICATION NUMBER: 60/056,983
: EARLIER FILING DATE: 1997-08-26
: NUMBER OF SEQ ID NOS: 47
: SOFTWARE: FASTSEQ for Windows Version 3.0
: SEQ ID NO 3
: LENGTH: 244
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-140-804-3

```

Query Match	32.0%	Score 424	DB 4	Length 244
Best Local Similarity	40.5%	Pred. NO. 2.5e-31		
Matches 106	Conservative 26	Mismatches 72	Indels 58	Gaps 10


```
OY 6 VLLLLGLAAGSPPLDNDKIPSLCPGH-----PG-----LPGTPGHHGSQ 44
    |||||
    7 VLLLLGLA-----PGHDOETTTGPGVLLPLPKGACTGWMAGIPGHPGN 50
    |||||
OY 45 GLPGRGRDGRDGAAPGAPGEGKGGPGLPGPRGD-----PGPRGEAGAPGPTGPA 95
    |||||
    51 GAFGRDGRD-----GTPGEGKGGDPLGPKGDIGETGVCAGEGPRGPGIOGRKGP 104
    |||||
OY 96 GECSVPPRASFSAKRSRPPPSDAPLPEDRVLVNQGCHYDAVTGKFTCOVPGVYFFAV 155
    |||||
    105 GEGAVYVRSASFV-GLETTYTIP-NMPIRTKIFYNQNNHYDSTGKFNHCPGLYFFAY 162
    |||||
OY 156 HATVYRASLQFDLVKNGES-IASFQPFGGMPKPAISGAMVRLPEPDQVWVQV-GVGD 213
    |||||
    163 HITVYMKDVAVSLFKKDKAMLFITYDQYQENNVDA--SGSVLLHLLEVGDQVWLQVYGE 220
    |||||
OY 214 YIGIVASIKTDSFSGFLVYSD 235
    |||||
    221 RNCGLYADNDNDSTFTGFLYHD 242
    |||||
```

RESULT 15

```
US-09-336-536-20
; Sequence 20, Application US/09336536
; Patent No. 640884
; GENERAL INFORMATION:
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; CURRENT FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 244
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-336-536-20
```

Query Match 32.0%; Score 424; DB 4; Length 244;

Best Local Similarity 40.5%; Pred. No. 2.5e-31; Matches 106; Conservative 26; Mismatches 72; Indels 58; Gaps 10;

```
OY 6 VLLLLGLAAGSPPLDNDKIPSLCPGH-----PG-----LPGTPGHHGSQ 44
    |||||
    7 VLLLLGLA-----PGHDOETTTGPGVLLPLPKGACTGWMAGIPGHPGN 50
    |||||
OY 45 GLPGRGRDGRDGAAPGAPGEGKGGPGLPGPRGD-----PGPRGEAGAPGPTGPA 95
    |||||
    51 GAFGRDGRD-----GTPGEGKGGDPLGPKGDIGETGVCAGEGPRGPGIOGRKGP 104
    |||||
OY 96 GECSVPPRASFSAKRSRPPPSDAPLPEDRVLVNQGCHYDAVTGKFTCOVPGVYFFAV 155
    |||||
    105 GEGAVYVRSASFV-GLETTYTIP-NMPIRTKIFYNQNNHYDSTGKFNHCPGLYFFAY 162
    |||||
OY 156 HATVYRASLQFDLVKNGES-IASFQPFGGMPKPAISGAMVRLPEPDQVWVQV-GVGD 213
    |||||
    163 HITVYMKDVAVSLFKKDKAMLFITYDQYQENNVDA--SGSVLLHLLEVGDQVWLQVYGE 220
    |||||
OY 214 YIGIVASIKTDSFSGFLVYSD 235
    |||||
    221 RNCGLYADNDNDSTFTGFLYHD 242
    |||||
```

Search completed: June 18, 2003, 14:54:23
Job time : 30 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 18, 2003, 14:54:28 ; Search time 23 Seconds

(without alignments)
438.206 Million cell updates/sec

Title: US-09-943-851A-42

Perfect score: 243
Sequence: 1 MRPLVLVLLGLAGSPPLD.....DSTFSGELVYSDMHSSPVFA 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 112892 seqs, 41476328 residues

Word size : 0

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	243	100.0	243	1	CQT5_HUMAN
2	11	4.5	289	1	CQT7_HUMAN
3	11	4.5	369	1	PSPD_BOVIN
4	11	4.5	374	1	PSPD_MOUSE
5	11	4.5	374	1	PSPD_RAT
6	11	4.5	375	1	PSPD_HUMAN
7	11	4.5	1355	1	CA21_RANCA
8	11	4.5	1670	1	CA17_HUMAN
9	11	4.5	2944	1	CA17_HUMAN
10	10	4.1	210	1	CAC2_HAECO
11	10	4.1	247	1	PSPA_CAVPO
12	10	4.1	247	1	PSPA_RABIT
13	10	4.1	248	1	PSPA_HUMAN
14	10	4.1	248	1	PSPA_HUMAN
15	10	4.1	248	1	PSPA_MOUSE
16	10	4.1	248	1	PSPA_RAT
17	10	4.1	249	1	PSPA_PIG
18	10	4.1	526	1	CA21_RABIT
19	10	4.1	547	1	CARL_EPHMU
20	10	4.1	1049	1	CA13_BOVIN
21	10	4.1	1464	1	CA13_MOUSE
22	10	4.1	1466	1	CA13_HUMAN
23	9	3.7	265	1	CTRC_NEIMA
24	9	3.7	636	1	CA13_RAT
25	9	3.7	695	1	APR2_MOUSE
26	9	3.7	765	1	APR2_RAT
27	9	3.7	1364	1	CA21_BOVIN
28	9	3.7	1366	1	CA21_CANFA
29	9	3.7	1402	1	IF4G_RABIT
30	9	3.7	1669	1	CA14_MOUSE
31	8	3.3	28	1	C10C_RAT
32	8	3.3	170	1	FA33_HUMAN
33	8	3.3	193	1	CERR_HUMAN

34	8	3.3	193	1	CERR_MOUSE	Q9r171 mus musculus
35	8	3.3	201	1	CERR_HUMAN	Q9atc7 homo sapien
36	8	3.3	224	1	CERR_RAT	P98087 rattus norv
37	8	3.3	244	1	APM1_HUMAN	Q15848 homo sapien
38	8	3.3	247	1	APM1_MOUSE	Q60394 mus musculu
39	8	3.3	301	1	CC02_MOUSE	P17656 caenorhabdl
40	8	3.3	306	1	CC40_MOUSE	P34604 caenorhabdl
41	8	3.3	316	1	CC12_MOUSE	P20630 caenorhabdl
42	8	3.3	316	1	CC13_MOUSE	P20631 caenorhabdl
43	8	3.3	329	1	CQT4_HUMAN	Q9bxj3 homo sapien
44	8	3.3	356	1	VP36_CANFA	P49256 canis fami
45	8	3.3	358	1	VP36_MOUSE	Q9dbb5 mus musculu

ALIGNMENTS

RESULT 1	ID	COT5_HUMAN	STANDARD:	PRT:	243 AA.
AC	Q9BXJ0	Q9BXJ0			
DT	15-JUN-2002	(Rel. 41, Created)			
DT	15-JUN-2002	(Rel. 41, Last sequence update)			
DE	15-JUN-2002	(Rel. 41, Last annotation update)			
GN	COMPLEMENT-C1Q TUMOR NECROSIS FACTOR-RELATED PROTEIN 5 PRECURSOR.				
OS	COMPLEMENT-C1Q TUMOR NECROSIS FACTOR-RELATED PROTEIN 5 PRECURSOR.				
OC	Homo sapiens (human).				
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.				
OX	NCBI_TaxID=9606;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RA	Sheppard P.O., Humes J.M.;				
RT	"Homo sapiens complement-c1q tumor necrosis factor-related protein.";				
RL	Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.				
RN	[2]				
RP	SEQUENCE OF 25-243 FROM N.A.				
RC	TISSUE=uterus;				
RA	Ottewaelder B., Obermaler B., Mewes H.-W., Gassenhuber J.,				
RL	Wiemann S.;				
CC	Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.				
CC	-1- SIMILARITY: CONTAINS 1 COLLAGENOUS DOMAIN.				
CC	-1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.				
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CC	or send an email to license@isb-sib.ch).				
CC	-----				
DR	EMBL: AF329841; AAK17965.1; -				
DR	EMBL: AL110261; CAB53702.1; -				
DR	Genew: HGNC:14344; C1QTNF5.				
DR	Interpro: IPR001073; C1Q.				
DR	Interpro: IPR000087; Collagen.				
DR	Pfam: PF00386; C1q; 1.				
DR	Pfam: PF01391; Collagen; 1.				
DR	PRINTS: PR00007; COMPLEMENTC1Q.				
DR	SMART: SM00110; C1Q; 1. FALSE_NEG.				
DR	PROSITE: PS01113; C1Q; FALSE_NEG.				
KW	Collagen; Signal.				
FT	SIGNAL	1	15	POTENTIAL.	
FT	CHAIN	16	243	COMPLEMENT-C1Q TUMOR NECROSIS FACTOR-	
FT				RELATED PROTEIN 5.	
FT	DOMAIN	30	95	COLLAGEN-LIKE.	
FT	SEQUENCE	243 AA;	25298 MW;	7CCDA65CDA7EB784 CRC64;	

Query Match 100.0%; Score 243; DB 1; Length 243;
Best Local Similarity 100.0%; Pred. No. 1,9e-193;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPCTPGHHGSGGLPGRDRGDRDAPG 60
Db 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPCTPGHHGSGGLPGRDRGDRDAPG 60
QY 61 APGEKGGCGRGLPGRDRGDRDAPGPTGAGGECVPPRASFASAKRSSESVPPSPD 120
Db 61 APGEKGGCGRGLPGRDRGDRDAPGPTGAGGECVPPRASFASAKRSSESVPPSPD 120
QY 121 APLEPDRVLVNEGHYAVNCKFTCOVPGVYFVAVHATVYASLOPLVKNKGEISASFEQ 180
Db 121 APLEPDRVLVNEGHYAVNCKFTCOVPGVYFVAVHATVYASLOPLVKNKGEISASFEQ 180
QY 181 FFGGMPKPRASLSGAMVRLPEPDQVWVGVGYDYGIGIYASIKTSTSGFLVYSMDHSSP 240
Db 181 FFGGMPKPRASLSGAMVRLPEPDQVWVGVGYDYGIGIYASIKTSTSGFLVYSMDHSSP 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 2
CQT7_HUMAN STANDARD; PRT; 289 AA.
AC 09BXJ2;
DT 15-JUN-2002 (Rel. 41, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DE 15-JUN-2002 (Rel. 41, Last annotation update)
DE Complement-c1q tumor necrosis factor-related protein 7 precursor.
GN C1QTNF7 OR CTRP7.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
NCBI_TaxID=9606;
RX (1)
RN SEQUENCE FROM N.A.
RA Piddington C.S., Sheppard P.O., Bishop P., Lasser G.W.;
RT "Homo sapiens complement-c1q tumor necrosis factor-related protein.";
RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.
RP (2)
RN SEQUENCE FROM N.A.
RA Strauberg R.;
RT TISSUE-Testis;
RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C1Q DOMAIN.
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CC
CC EMBL: AF329839; AAK17963.1;
CC EMBL: BC022187; AAK22187.1;
CC Genew: HGNC:14342; C1QTNF7.
CC Interpro: IPR001073; C1q.
CC Interpro: IPR000087; Collagen.
CC Pfam: PF00386; C1q; 1.
CC SMART: SM00007; COMPLEMENTC1Q.
CC PROSITE: PS0113; C1Q; 1.
CC SIGNAL
CC CHAIN 1 16 POTENTIAL.
CC CHAIN 17 289 COMPLEMENT-C1Q TUMOR NECROSIS FACTOR-
CC CHAIN 17 289 RELATED PROTEIN 7.
CC DOMAIN 38 139 COLLAGEN-LIKE.
CC DOMAIN 141 276 C1Q.
CC SEQUENCE 289 AA; 30683 MW; A61609FF6BD26946 CRC64;

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Query Match 4.5%; Score 11; DB 1; Length 289;
Best Local Similarity 100.0%; Pred. No. 0.06;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDRGR 55
Db 59 GLPGRDRGR 69

RESULT 3
PSPD_BOVIN STANDARD; PRT; 369 AA.
ID PSPD_BOVIN
AC P35246;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
GN SFTPD OR SFTPD4.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Bovinae; Bos.
NCBI_TaxID=9913;
RX (1)
RN SEQUENCE FROM N.A., AND SEQUENCE OF 208-247.
RP TISSUE-Lung;
RC MEDLINE=93170856; Pubmed=8436402;
RX Lin B.L., Lu J., Reid K.B.M.;
RT "Structural similarity between bovine conglutinin and bovine lung
RT surfactant protein D and demonstration of liver as a site of
RT synthesis of conglutinin."
RL Immunology 78:159-165(1993).
CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
CC EXTENT OTHER ALPHA-GLUCOSYL MOTIFES. IT COULD PARTICIPATE IN THE
CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
CC -1- SUBCELLULAR LOCATION: Extracellular.
CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
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CC
CC EMBL: X75911; GAA53510.1;
CC PIR: S33603; S33603.
CC HSSP: P35247; 1808.
CC Interpro: IPR000087; Collagen.
CC Interpro: IPR001304; Lectin_C.
CC Pfam: PF00059; lectin.c; 1.
CC Pfam: PF01391; Collagen; 2.
CC SMART: SM00034; CLECT; 1.
CC PROSITE: PS00615; C-TYPE LECTIN_1; 1.
CC PROSITE: PS50041; C-TYPE LECTIN_2; 1.
CC Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
CC Signal; Lactin; Collagen; Repeat; Coiled coil.
CC SIGNAL 1 20 BY SIMILARITY.
CC CHAIN 21 369 PULMONARY SURFACTANT-ASSOCIATED PROTEIN
CC CHAIN 21 369 D.
CC DOMAIN 46 216 COLLAGEN-LIKE.
CC DOMAIN 217 248 COILED COIL (POTENTIAL).
CC DOMAIN 273 369 C-TYPE LECTIN (SHORT FORM).
CC DISULFID 275 367 BY SIMILARITY.

```

Query Match	Best Local Similarity	Score 11:	DB 1:	Length 369:
Matches 11:	Conservative	0:	Mismatches 0:	Indels 0:
Gaps	0:			
QY	45	GLPGRDGRGR 55		
Db	46	GLPGRDGRGR 56		
RESULT 4				
PSPD_MOUSE	STANDARD:	PRT:	374 AA.	
ID	PSPD_MOUSE			
AC	P50404;			
DT	01-OCT-1996 (Rel. 34, Created)			
DT	01-OCT-1996 (Rel. 34, Last sequence update)			
DT	15-JUN-2002 (Rel. 41, Last annotation update)			
DE	Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).			
GN	SEPPD OR SFTPD.			
OS	Mus musculus (Mouse).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
OX	NCBI_TaxID:10090;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN-C57BL/6 X CBA; TISSUE-Lung;			
RX	MEDLINE-96094460; PubMed-7499852;			
RA	Moswani M., White R.A., Guo N., Dowler L.L., Tauber A.I., Sastri K.N.;			
RT	"Mouse surfactant protein-D. cDNA cloning, characterization, and gene			
RT	localization to chromosome 14.";			
RT	J. Immunol. 155:5671-5677(1995).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	STRAIN-129/Sv;			
RX	MEDLINE-99244602; PubMed-1022605;			
RA	Lawson P. R., Perkins V. C., Holmskov U., Reid K. B.;			
RT	"Genomic organization of the mouse gene for lung surfactant protein			
RT	D.";			
RT	Am. J. Respir. Cell Mol. Biol. 20:953-963(1999).			
RN	[3]			
RP	SEQUENCE FROM N.A.			
RA	Fisher J. H., Shetlervich V. V.;			
RT	"Surfactant protein-D regulates surfactant phospholipid homeostasis in			
RT	vivo.";			
RT	Submitted (OCT-1999) to the EMBL/Genbank/DBJ databases.			
RN	[4]			
RP	SEQUENCE FROM N.A.			
RA	Strausberg R.;			
RL	Submitted (FEB-2001) to the EMBL/Genbank/DBJ databases.			
CC	-1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED			
CC	MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER			
CC	EXTENT OTHER ALPHA-GLUCOSYL MOIETIES. IT COULD PARTICIPATE IN THE			
CC	EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.			
CC	-1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.			
CC	-1- SUBCELLULAR LOCATION: Extracellular.			
CC	-1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%			
CC	PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,			
CC	CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL			
CC	HYDROPHOBIC PROTEINS (SP-B AND SP-C).			
CC	-1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.			
CC	-1- SIMILARITY: CONTAINS 1 C-TERM LECTIN FAMILY DOMAIN.			
CC	-----			
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CR EMBL; LA0156; AAA92021.1; -
DR EMBL; AF047742; AAD31380.1; -
DR EMBL; AF047741; AAD31380.1; JOINED.
DR EMBL; AF192134; AAF15277.1; -
DR EMBL; BC003705; AAH03705.1; -
DR HSSP; P35247; 1B08.
DR MGD; MG1:109515; Sfrpd.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF00059; lectin_c; 1.
DR Pfam; PF01391; Collagen; 3.
DR SMART; SMO0034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
DR PROSITE; PSS0041; C-TYPE_LECTIN_2; 1.
KW Glycoprotein; Calcium; Surface Film; Gaseous exchange; Hydroxylation;
FT Signal; Lectin; Collagen; Repeat; Coiled coil.
FT SIGNAL 1 19 BY SIMILARITY.
FT CHAIN 20 374 PULMONARY SURFACTANT-ASSOCIATED PROTEIN D.
FT FT 45 221 COLLAGEN-LIKE
FT DOMAIN 222 253 COILED COIL (POTENTIAL).
FT DOMAIN 278 374 C-TYPE LECTIN (SHORT FORM).
FT DISULFD 280 372 BY SIMILARITY.
FT DISULFD 350 364 BY SIMILARITY.
FT CARBOHYD 89 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 374 AA; 37688 MW; FE034261263f43ef CMC64;

Query Match 4.5%; Score 11; DB 1; Length 374;
Best Local Similarity 100.0%; Pred. No. 0.074;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRGR 55
DB 45 GLPGRDGRGR 55
|||||

RESULT 5
PSPD_RAT STANDARD; PRT; 374 AA.
AC P35248;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 15-JUL-1999 (Rel. 38, Last annotation update)
DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D)
DE (CP4).
GN SMPD OR SFRP4.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 20-33.
RC TISSUE=Lung;
RX MEDLINE=92112913; PubMed=1370483;
RA Shimizu H., Fisher J.H., Papst P., Benson B., Lau K., Mason R.J.,
RA Voelker D.R.;
RT "Primary structure of rat pulmonary surfactant protein D. cDNA and
RL deduced amino acid sequence.";
RL J. Biol. Chem. 267:1853-1857(1992).
RN [2]
RP SEQUENCE OF 73-95 AND 153-180.
RC TISSUE=Lung;
RX MEDLINE=90001186; PubMed=2675969;
RA Persson A., Chang D., Rust K., Longmore W., Crouch E.;
RT "Purification and biochemical characterization of CP4 (SP-D), a
RL collagenous surfactant-associated protein.";
RL Biochemistry 28:6361-6367(1989).

CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
 CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
 CC EXTENT OTHER ALPHA-GLUCOSYL MOETIES. IT COULD PARTICIPATE IN THE
 CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
 CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
 CC -1- SUBCELLULAR LOCATION: Extracellular.
 CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
 CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
 CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
 CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
 CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
 CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
 CC -----
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 CC -----
 CC EMBL: M81231; AAA42170.1; -
 CC DR PIR: A42046; A42046.
 CC DR HSSP: P35247; 1B08.
 CC DR InterPro: IPR000087; Collagen.
 CC DR InterPro: IPR001304; Lectin_C.
 CC DR Pfam: PF00059; Lectin_C; 1.
 CC DR Pfam: PF01391; Collagen; 3.
 CC DR SMART: SM00034; CLECT; 1.
 CC DR PROSITE: PS00615; C-TYPE LECTIN_1; 1.
 CC DR PROSITE: PS50041; C-TYPE LECTIN_2; 1.
 CC KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
 KW Signal; Lectin; Collagen; Repeat; Collid coll.
 FT CHAIN 1 19
 FT FT 20 374 PULMONARY SURFACTANT-ASSOCIATED PROTEIN
 FT FT 20 374 D.
 FT FT 221 COLLAGEN-LIKE.
 FT FT 222 COLLED COIL (POTENTIAL).
 FT FT 228 374 C-TYPE LECTIN (SHORT FORM).
 FT FT 280 372 BY SIMILARITY.
 FT FT DISULFID 350 364 N-LINKED (GLCNAc. . .).
 FT FT CARBOHYD 89 89 HYDROXYLATION.
 FT FT MOD_RES 77 77 HYDROXYLATION.
 FT FT MOD_RES 86 86 HYDROXYLATION.
 FT FT MOD_RES 95 95 HYDROXYLATION.
 FT FT MOD_RES 98 98 HYDROXYLATION.
 FT FT MOD_RES 170 170 HYDROXYLATION.
 FT FT MOD_RES 176 176 HYDROXYLATION.
 FT FT CONFLICT 89 89 N -> E (IN REF. 2).
 FT FT CONFLICT 164 164 K -> C (IN REF. 2).
 SO SEQUENCE 374 AA; 37561 MW; D82B85E39DB4A3C CRC64;
 Query Match 4.5%; Score 11; DB 1; Length 374;
 Best Local Similarity 100.0%; Pred. No. 0.074;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 45 GLPGRDGRGR 55
 Db 45 GLPGRDGRGR 55
 RESULT 6
 PSPD_HUMAN STANDARD: PRT: 375 AA.
 ID PSPD_HUMAN P35247;
 AC P35247;
 DT 01-FEB-1994 (Rel. 28, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Pulmonary surfactant-associated protein D precursor (SP-D) (PSP-D).
 GN SFTPD OR SFTPD OR PSPD.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Placenta;
 RX MEDLINE=9155122; PubMed=8428971;
 RA Crouch E., Rust K., Velle R., Donis-Keller H., Grosso L.;
 RT "Genomic organization of human surfactant protein D (SP-D). SP-D is
 RT encoded on chromosome 10q22.2-23.1.";
 RL J. Biol. Chem. 268:2976-2983(1993).
 RN [2]
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 214-243.
 RC TISSUE=Lung; and Amniotic fluid;
 RX MEDLINE=92322003; PubMed=1339284;
 RA Lu J., Willis A.C., Reid K.B.M.;
 RT "Purification, characterization and cDNA cloning of human lung
 RT surfactant protein D.";
 RL Biochem. J. 284:795-802(1992).
 RN [3]
 RP SEQUENCE OF 60-375 FROM N.A., AND PARTIAL SEQUENCE.
 RC TISSUE=Lung;
 RX MEDLINE=91378578; PubMed=1898081;
 RA Rust K., Grosso L., Zhang V., Chang D., Pettersson A., Longmore W.,
 RA Cai G.-Z., Crouch E.;
 RT "Human surfactant protein D: SP-D contains a C-type lectin
 RT carbohydrate recognition domain.";
 RL Arch. Biochem. Biophys. 290:116-126(1991).
 RN [4]
 RP X-RAY CRYSTALLOGRAPHY (2.3 ANGSTROMS).
 RX MEDLINE=99197291; PubMed=10368295;
 RA Hakansson K., Lim N.K., Hoppe H.-J., Reid K.B.M.;
 RT "Crystal structure of the trimeric alpha-helical collid-coll and the
 RT three lectin domains of human lung surfactant protein D.";
 RL Structure 7:255-264(1999).
 CC -1- FUNCTION: CONTRIBUTES TO THE LUNG'S DEFENSE AGAINST INHALED
 CC MICROORGANISMS. BINDS STRONGLY MALTOSE RESIDUES AND TO A LESSER
 CC EXTENT OTHER ALPHA-GLUCOSYL MOETIES. IT COULD PARTICIPATE IN THE
 CC EXTRACELLULAR REORGANIZATION OR TURNOVER OF PULMONARY SURFACTANT.
 CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 4 SET OF HOMOTRIMERS.
 CC -1- SUBCELLULAR LOCATION: Extracellular.
 CC -1- PTM: The N-terminus is blocked.
 CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
 CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
 CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
 CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
 CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
 CC -----
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL: L05485; AAB59450.1; -
 CC DR EMBL: L05483; AAB59450.1; JOINED.
 CC DR EMBL: L05484; AAB59450.1; JOINED.
 CC DR EMBL: X65018; CAA46152.1; -
 CC DR PIR: A45225; A45225.
 CC DR PIR: S18382; S18382.
 CC DR PDB: 1B08; 29-NOV-99.
 CC DR Genew; HGNC:10803; SFTPD.
 CC DR MIM: 178635; -
 CC DR InterPro: IPR000087; Collagen.
 CC DR InterPro: IPR001304; Lectin_C.
 CC DR Pfam: PF00059; Lectin_C; 1.
 CC DR Pfam: PF01391; Collagen; 4.
 CC DR SMART: SM00034; CLECT; 1.
 CC DR PROSITE: PS00615; C-TYPE LECTIN_1; 1.
 CC DR PROSITE: PS50041; C-TYPE LECTIN_2; 1.
 KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
 KW Signal; Lectin; Collagen; Repeat; Collid coll; 3D-structure.

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FT SIGNAL 1 20 BY SIMILARITY.
FT CHAIN 21 375 PULMONARY SURFACTANT-ASSOCIATED PROTEIN
FT 46 222 D.
FT DOMAIN 223 252 COLLAGEN-LIKE.
FT 279 375 COILED COIL (POTENTIAL).
FT DISULFID 281 373 C-TYPE LECTIN (SHORT FORM).
FT CARBOHYD 351 365 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT MOD.RES 90 90 HYDROXYLATION (BY SIMILARITY).
FT 78 78 HYDROXYLATION (BY SIMILARITY).
FT MOD.RES 96 96 HYDROXYLATION (BY SIMILARITY).
FT MOD.RES 99 99 HYDROXYLATION (BY SIMILARITY).
FT MOD.RES 171 171 HYDROXYLATION (BY SIMILARITY).
FT MOD.RES 177 177 HYDROXYLATION (BY SIMILARITY).
FT CONFLICT 31 31 M -> T (IN REF. 2).
FT CONFLICT 59 59 P -> F (IN REF. 3).
FT CONFLICT 122 122 A -> P (IN REF. 2).
FT CONFLICT 180 180 T -> A (IN REF. 2).
FT CONFLICT 206 206 E -> P (IN REF. 3).
FT CONFLICT 374 374 E -> EH (IN REF. 3).
SQ SEQUENCE 375 AA; 37702 MW; 2986B2699FC01A6A CRC64;

Query Match 4.5%; Score 11; DB 1; Length 375;
Best Local Similarity 100.0%; Pred. No. 0.074;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDGR 55
Db 46 GLPGRDGRDGR 56

RESULT 7
CA21_RANCA STANDARD; PRT: 1355 AA.
AC 042350;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Collagen alpha 2(I) chain precursor.
GN COL1A2.
OS Rana catesbeiana (Bull. frog).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.
OX NCBI_TaxID=8400;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Tail;
RX MEDLINE-97417499; PubMed-9272872;
RA Asahina K., Oofusa K., Obara M., Yoshizato K.;
RT Cloning and characterization of the full length cDNA encoding alpha2
RT type I collagen of bullfrog Rana catesbeiana.;
RL Gene 194:283-289(1997).
CC -1- FUNCTION: TYPE I COLLAGEN IS A MEMBER OF GROUP I COLLAGEN
CC (FIBRILLAR FORMING COLLAGEN).
CC -1- SUBUNIT: TRIMERS OF ONE ALPHA 2(I) AND TWO ALPHA 1(I) CHAINS.
CC -1- TISSUE SPECIFICITY: FORMS THE FIBRILS OF TENDON, LIGAMENTS AND
CC BONES. IN BONES THE FIBRILS ARE MINERALIZED WITH CALCIUM
CC HYDROXYAPATITE.
CC -1- PTM: PROLINES AT THE THIRD POSITION OF THE TRIPEPTIDE REPEATING
CC UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -----
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CC use by non-profit institutions as long as its content is in no way
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: D88764; BAA23380.1;
CC InterPro: IPR000087; Collagen.
CC InterPro: IPR000885; Fib_collagen_C.

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DR Pfam: PF01391; Collagen; 18.
DR Pfam: PF01410; COLF1; 1.
DR ProDom: PD000007; Collagen; 3.
DR ProDom: PD002078; Fib_collagen_C; 1.
DR SMART: SM00038; COLF1; 1.
KW Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
KW Glycoprotein; Collagen; Signal.
FT SIGNAL 1 22 POTENTIAL.
FT PROPEP 23 82 AMINO-TERMINAL PROPEPTIDE (POTENTIAL).
FT CHAIN 83 1093 COLLAGEN ALPHA 2(I) CHAIN.
FT PROPEP 1094 1355 CARBOXYL-TERMINAL PROPEPTIDE
FT (BY SIMILARITY).
FT CARBOHYD 1206 1206 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 1256 1256 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 1355 AA; 127643 MW; CB793AD5D6F41D2A CRC64;

Query Match 4.5%; Score 11; DB 1; Length 1355;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 83 RGEAGPAGPTG 93
Db 705 RGEAGPAGPTG 715

RESULT 8
CA34_HUMAN STANDARD; PRT: 1670 AA.
AC 001955; Q9B0T2;
DT 01-OCT-1996 (Rel. 34, Created)
DT 15-JUL-1999 (Rel. 38, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Collagen alpha 3(IV) chain precursor (Goodpasture antigen).
GN COL4A3.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Kidney;
RX MEDLINE-94364994; PubMed-8083201;
RA Maruyama M., Leinonen A., Mochizuki T., Tryggvason K., Reeders S.T.;
RT "Complete primary structure of the human alpha 3(IV) collagen chain.
RT Coexpression of the alpha 3(IV) and alpha 4(IV) collagen chains in
RT human tissues.";
RL J. Biol. Chem. 269:23013-23017(1994).
RN [2]
RP REVISIONS.
RA Leinonen A.;
RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.; VARIANTS AS E-297; R-407; R-640; R-1167; E-1207;
RP 0-1215; S-1277; T-1330; E-1334; E-1347 AND C-1661, AND VARIANTS R-43;
RP E-162; Y-326; H-408; R-451; L-574; E-1269 AND P-1474.
RX MEDLINE-21064696; PubMed-11134255;
RA Heider L., Ariondel C., Forestier L., Cohen-Solal L., Mollet G.,
RA Gutierrez B., Stavrou C., Gubler M.C., Antignac C.;
RT "Structure of the human type IV collagen gene COL4A3 and mutations in
RT autosomal Alport syndrome.";
RL J. Am. Soc. Nephrol. 12:97-106(2001).
RN [4]
RP SEQUENCE OF 1386-1670 FROM N.A., AND PARTIAL SEQUENCE.
RX MEDLINE-93015826; PubMed-1400291;
RA Quiñones S., Bernal D., Garcia-Sogo M., Elena S.F., Saus J.;
RT "Exon/intron structure of the human alpha 3(IV) gene encompassing the
RT Goodpasture antigen (alpha 3(IV)NC1). Identification of a potentially
RT antigenic region at the triple helix/NC1 domain junction.";
RL J. Biol. Chem. 267:19780-19784(1992).
RN [5]
RP SEQUENCE OF 1453-1670 FROM N.A.
RX MEDLINE-91353570; PubMed-1882840;
RA Morrison K.E., Maruyama M., Yang-Feng T.L., Reeders S.T.;

```

Sequence and localization of a partial cDNA encoding the human alpha 3 chain of type IV collagen.;
RL Am. J. Hum. Genet. 49:545-554(1991).
RN [6]
RP SEQUENCE OF 1331-1670 FROM N.A.
RC TISSUE-Kidney;
RX MEDLINE-92147878; PubMed-1737849;
RA Turner N., Mason P.J., Brown R., Fox M., Povey S., Rees A.,
Pusey C.D.;
RT *Molecular cloning of the human Goodpasture antigen demonstrates it to be the alpha 3 chain of type IV collagen.*;
RL J. Clin. Invest. 89:592-601(1992).
RN [7]
RP SEQUENCE OF 1644-1670 FROM N.A.
RC TISSUE-Kidney;
RX Submitted (JAN-1993) to the EMBL/GenBank/DBJ databases.
RN [8]
RP SEQUENCE OF 1439-1670, AND ALTERNATIVE SPLICING.
RC TISSUE-Kidney;
RX MEDLINE-94124597; PubMed-8294492;
RA Feng L., Xia Y., Wilson C.B.;
RT *Alternative splicing of the NCI domain of the human alpha 3(IV) collagen gene. Differential expression of mRNA transcripts that predict three protein variants with distinct carboxyl regions.*;
RL J. Biol. Chem. 269:2342-2348(1994).
RN [9]
RP SEQUENCE OF 1-29 FROM N.A.
RX MEDLINE-98196854; PubMed-9537506;
RA Momota R., Sugimoto M., Ohashi T., Kigasawa K., Yoshioke H.,
Ninomiya Y.;
RT *Two genes, COL4A3 and COL4A4 coding for the human alpha3(IV) and alpha4(IV) collagen chains are arranged head-to-head on chromosome 2q36.*;
RL FEBS Lett. 424:11-16(1998).
RN [10]
RP ALTERNATIVE SPLICING.
RX MEDLINE-93280184; PubMed-8505332;
RA Bernal D., Gullones S., Saus J.;
RT *The human mRNA encoding the Goodpasture antigen is alternatively spliced.*;
RL J. Biol. Chem. 268:12090-12094(1993).
RN [11]
RP VARIANT PRO-1474.
RX MEDLINE-95078827; PubMed-7987301;
RA Lemmink H.H., Mochizuki T., van den Heuvel L.P.W.J., Schroeder C.H.,
Bartelens A., Monnens L.A.H., van Oost B.A., Brunner H.G.,
Reeders S.T., Smeets H.J.M.;
RT *Mutations in the type IV collagen alpha 3 (COL4A3) gene in autosomal recessive Alport syndrome.*;
RL Hum. Mol. Genet. 3:1269-1273(1994).
RN [12]
RP FUNCTION: TYPE IV COLLAGEN IS THE MAJOR STRUCTURAL COMPONENT OF GLOMERULAR BASEMENT MEMBRANES (GBM), FORMING A 'CHICKEN-WIRE' MESHWORK TOGETHER WITH LAMININS, PROTEOGLYCANS AND ENACTIN/NIDOGEN.
CC -1- SUBUNIT: THERE ARE SIX TYPE IV COLLAGEN ISOFORMS, ALPHA 1(IV)-ALPHA 6(IV), EACH OF WHICH CAN FORM A TRIPLE HELIX STRUCTURE WITH 2 OTHER CHAINS TO GENERATE TYPE IV COLLAGEN NETWORK.
CC -1- SUBCELLULAR LOCATION: CELL SURFACE (POTENTIAL).
CC -1- ALTERNATIVE PRODUCTS: AT LEAST 3 ISOFORMS; 1 (SHOWN HERE), 2/V AND 3/LS; ARE PRODUCED BY ALTERNATIVE SPLICING. THEY DIFFER IN THEIR C-TERMINAL NCI DOMAINS.
CC -1- TISSUE SPECIFICITY: ALPHA 3 AND ALPHA 4 TYPE IV COLLAGENS ARE COLOCALIZED AND PRESENT ONLY IN BASEMENT MEMBRANES OF KIDNEY, EYE, COCHLEA, LUNG AND BRAIN.
CC -1- DOMAIN: ALPHA CHAINS OF TYPE IV COLLAGEN HAVE A NONCOLLAGENOUS DOMAIN (NCI) AT THEIR C-TERMINUS, FREQUENT INTERRUPTIONS OF THE G-X-Y REPEATS IN THE LONG CENTRAL TRIPLE-HELICAL DOMAIN (WHICH MAY CAUSE FLEXIBILITY IN THE TRIPLE HELIX), AND A SHORT N-TERMINAL TRIPLE-HELICAL 7S DOMAIN.
CC -1- PTM: PROLINS ARE AT THE THIRD POSITION OF THE TRIPLEPEPTIDE REPEATING UNIT (G-X-Y) ARE HYDROXYLATED IN SOME OR ALL OF THE CHAINS.
CC -1- PTM: THE ALTERNATIVE SPLICED FORM V CONTAINS AN ADDITIONAL

CC N-LINKED GLYCOSYLATION SITE.
CC -1- PTM: TYPE IV COLLAGENS CONTAIN NUMEROUS CYSTEINE RESIDUES WHICH ARE INVOLVED IN INTER- AND INTRAMOLECULAR DISULFIDE BONDING. 12 OF THESE, LOCATED IN THE NCI DOMAIN, ARE CONSERVED IN ALL KNOWN TYPE IV COLLAGENS.
CC -1- PTM: Phosphorylated by the Goodpasture antigen-binding protein.
CC -1- DISEASE: ANTIBODIES AGAINST THE NCI DOMAIN OF ALPHA3(IV) MEDIATE THE HUMAN AUTOIMMUNE DISEASE, GOODPASTURE SYNDROME, WHICH IS CHARACTERIZED BY HEMATURIA AND PULMONARY HEMORRHAGE.
CC -1- DISEASE: DEFECTS IN COL4A3 ARE ASSOCIATED WITH THE TYPE I AUTOSOMAL RECESSIVE FORM OF ALPORT SYNDROME, AN HEREDITARY GLOMERULONEPHROPATHY CHARACTERIZED BY PROGRESSIVE RENAL FAILURE, HEMATURIA AND DEAFNESS. THE RECESSIVE FORM OCCURS EQUALLY BETWEEN MALES AND FEMALES.
CC -----
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CC -----
CC EMBL; X80031; CAA56335.1; -
DR EMBL; AJ288487; CAC36101.1; JOINED.
DR EMBL; AJ288488; CAC36101.1; JOINED.
DR EMBL; AJ288489; CAC36101.1; JOINED.
DR EMBL; AJ288490; CAC36101.1; JOINED.
DR EMBL; AJ288491; CAC36101.1; JOINED.
DR EMBL; AJ288492; CAC36101.1; JOINED.
DR EMBL; AJ288493; CAC36101.1; JOINED.
DR EMBL; AJ288494; CAC36101.1; JOINED.
DR EMBL; AJ288495; CAC36101.1; JOINED.
DR EMBL; AJ288496; CAC36101.1; JOINED.
DR EMBL; AJ288497; CAC36101.1; JOINED.
DR EMBL; AJ288498; CAC36101.1; JOINED.
DR EMBL; AJ288499; CAC36101.1; JOINED.
DR EMBL; AJ288500; CAC36101.1; JOINED.
DR EMBL; AJ288501; CAC36101.1; JOINED.
DR EMBL; AJ288502; CAC36101.1; JOINED.
DR EMBL; AJ288503; CAC36101.1; JOINED.
DR EMBL; AJ288504; CAC36101.1; JOINED.
DR EMBL; AJ288505; CAC36101.1; JOINED.
DR EMBL; AJ288506; CAC36101.1; JOINED.
DR EMBL; AJ288507; CAC36101.1; JOINED.
DR EMBL; AJ288508; CAC36101.1; JOINED.
DR EMBL; AJ288509; CAC36101.1; JOINED.
DR EMBL; AJ288510; CAC36101.1; JOINED.
DR EMBL; AJ288511; CAC36101.1; JOINED.
DR EMBL; AJ288512; CAC36101.1; JOINED.
DR EMBL; AJ288513; CAC36101.1; JOINED.
DR EMBL; AJ288514; CAC36101.1; JOINED.
DR EMBL; AJ288515; CAC36101.1; JOINED.
DR EMBL; AJ288516; CAC36101.1; JOINED.
DR EMBL; AJ288517; CAC36101.1; JOINED.
DR EMBL; AJ288518; CAC36101.1; JOINED.
DR EMBL; AJ288519; CAC36101.1; JOINED.
DR EMBL; AJ288520; CAC36101.1; JOINED.
DR EMBL; AJ288521; CAC36101.1; JOINED.
DR EMBL; AJ288522; CAC36101.1; JOINED.
DR EMBL; AJ288523; CAC36101.1; JOINED.
DR EMBL; AJ288524; CAC36101.1; JOINED.
DR EMBL; AJ288525; CAC36101.1; JOINED.
DR EMBL; AJ288526; CAC36101.1; JOINED.
DR EMBL; AJ288527; CAC36101.1; JOINED.
DR EMBL; AJ288528; CAC36101.1; JOINED.
DR EMBL; AJ288529; CAC36101.1; JOINED.
DR EMBL; AJ288530; CAC36101.1; JOINED.
DR EMBL; AJ288531; CAC36101.1; JOINED.
DR EMBL; AJ288532; CAC36101.1; JOINED.
DR EMBL; AJ288533; CAC36101.1; JOINED.
DR EMBL; AJ288534; CAC36101.1; JOINED.
DR EMBL; AJ288535; CAC36101.1; JOINED.

DR EMBL; AJ288536; CAC36101.1; JOINED.
 DR EMBL; AJ288537; CAC36101.1; JOINED.
 DR EMBL; AJ288538; CAC36101.1; JOINED.
 DR EMBL; M92993; AAA21610.1; -
 DR EMBL; S55790; AAB19637.1; -
 DR EMBL; M81379; AAA51556.1; -
 DR EMBL; L08650; AAA52044.1; -
 DR EMBL; U02519; AAA18942.1; -

Query Match 4.5%; Score 11; DB 1; Length 1670;
 Best Local Similarity 100.0%; Pred. No. 0.24;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 71 PGLPGRGDPG 81
 DB 1300 PGLPGRGDPG 1310

RESULT 9
 CA17_HUMAN STANDARD; PRT; 2944 AA.
 AC 002388; O14054; O16507;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Collagen alpha 1(VII) chain precursor (Long-chain collagen) (LC collagen).
 GN COL7A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-94327588; PubMed-8051117;
 RA Christiano A.M., Greenspan D.S., Lee S., Uitto J.;
 RT Cloning of human type VII collagen. Complete primary sequence of the alpha 1(VII) chain and identification of intragenic polymorphisms.
 RT J. Biol. Chem. 269:20256-20262(1994).
 RN [2]
 RP SEQUENCE OF 128-1493 FROM N.A., AND PARTIAL SEQUENCE.
 RX MEDLINE-93336437; PubMed-1307247;
 RA Christiano A.M., Rosenbaum L.M., Chung-Honet L.C., Parente M.G., Woodley D.T., Pan T.C., Zhang R.Z., Chu M.-L., Burgeson R.E., Uitto J.;
 RT The large non-collagenous domain (NC-1) of type VII collagen is amino-terminal and chimeric. Homology to cartilage matrix protein, the type III domains of fibronectin and the A domains of von Willebrand factor.
 RT Hum. Mol. Genet. 1:475-481(1992).
 RN [3]
 RP SEQUENCE OF 815-1439 FROM N.A.
 RX MEDLINE-93107742; PubMed-1871109;
 RA Parente M.G., Chung L.C., Ryyanen J., Woodley D.T., Wynn K.W., Bauer E.A., Mettel M.-G., Chu M.-L., Uitto J.;
 RT Human type VII collagen: cDNA cloning and chromosomal mapping of the gene.
 RT Proc. Natl. Acad. Sci. U.S.A. 88:6931-6935(1991).
 RN [4]
 RP SEQUENCE OF 369-1255 FROM N.A.
 RX MEDLINE-93107742; PubMed-1469284;
 RA Gannon W.R., Abernethy M.L., Padilla K.M., Pilsayanh P.S., Cook M.E., Wright J., Brigaman R.A., Hunt S.W. III;
 RT Noncollagenous (NC1) domain of collagen VII resembles multidomain adhesion proteins involved in tissue-specific organization of extracellular matrix.
 RT J. Invest. Dermatol. 99:691-696(1992).
 RN [5]
 RP SEQUENCE OF 340-675 FROM N.A.
 RX TISSUE-Keratinocytes; PubMed-1567409;
 RA Tanaka T., Takahashi K., Furukawa F., Imamura S.;
 RT Molecular cloning and characterization of type VII collagen cDNA.

RL Biochem. Biophys. Res. Commun. 183:958-963(1992).
 RN [6]
 RP SEQUENCE OF 2395-2944 FROM N.A.
 RX MEDLINE-93271985; PubMed-8499916;
 RA Greenspan D.S.;
 RT The carboxyl-terminal half of type VII collagen, including the non-collagenous NC-2 domain and intron/exon organization of the corresponding region of the COL7A1 gene.
 RT Hum. Mol. Genet. 2:273-278(1993).
 RN [7]
 RP SEQUENCE OF 1-87 FROM N.A.
 RX TISSUE-Placenta;
 RC MEDLINE-94375010; PubMed-8088784;
 RA Christiano A.M., Hoffman G.G., Chung-Honet L.C., Lee S., Cheng W., Uitto J., Greenspan D.S.;
 RT Structural organization of the human type VII collagen gene (COL7A1), composed of more exons than any previously characterized gene.
 RT Genomics 21:169-179(1994).
 RN [8]
 RP REVIEW ON DEB VARIANTS.
 RX MEDLINE-98041696; PubMed-9375948;
 RA Jaervikallio A., Pulkkinen L., Uitto J.;
 RT Molecular basis of dystrophic epidermolysis bullosa: mutations in the type VII collagen gene (COL7A1).
 RT Hum. Mutat. 10:338-347(1997).
 RN [9]
 RP VARIANT RDEB LYS-2798.
 RX MEDLINE-93291877; PubMed-8513326;
 RA Christiano A.M., Greenspan D.S., Hoffman G.G., Zhang X., Tamai Y., Lin A.N., Dietz H.C., Hovnanian A., Uitto J.;
 RT A missense mutation in type VII collagen in two affected siblings with recessive dystrophic epidermolysis bullosa.
 RT Nat. Genet. 4:62-66(1993).
 RN [10]
 RP VARIANT DDEB SER-2040.
 RX MEDLINE-94224777; PubMed-8170945;
 RA Christiano A.M., Ryyanen M., Uitto J.;
 RT Dominant dystrophic epidermolysis bullosa: identification of a Gly-->Ser substitution in the triple-helical domain of type VII collagen.
 RT Proc. Natl. Acad. Sci. U.S.A. 91:3549-3553(1994).
 RN [11]
 RP VARIANT PER-DDEB CYS-2623.
 RX MEDLINE-96081220; PubMed-8541842;
 RA Christiano A.M., Lee J.Y., Chen W.J., Laforgia S., Uitto J.;
 RT Peribulbar epidermolysis bullosa: genetic linkage to COL7A1 and identification of a glycine-to-cysteine substitution in the triple-helical domain of type VII collagen.
 RT Hum. Mol. Genet. 4:1579-1583(1995).
 RN [12]
 RP VARIANT DDEB ARG-2043.
 RX MEDLINE-95164985; PubMed-7861014;
 RA Christiano A.M., Morriconi A., Paradisi M., Angelo C., Mazzanti C., Cavallieri R., Uitto J.;
 RT A glycine-to-arginine substitution in the triple-helical domain of type VII collagen in a family with dominant dystrophic epidermolysis bullosa.
 RT J. Invest. Dermatol. 104:438-440(1995).
 RN [13]
 RP VARIANTS RDEB AND DDEB.
 RX MEDLINE-96220218; PubMed-8644729;
 RA Christiano A.M., McGrath J.A., Tan K.C., Uitto J.;
 RT Glycine substitutions in the triple-helical region of type VII collagen result in a spectrum of dystrophic epidermolysis bullosa phenotypes and patterns of inheritance.
 RT Am. J. Hum. Genet. 58:671-681(1996).
 RN [14]
 RP VARIANT RDEB ARG-2575.
 RX MEDLINE-96154068; PubMed-8592061;
 RA Shimizu H., McGrath J.A., Christiano A.M., Nishikawa T., Uitto J.;
 RT Molecular basis of recessive dystrophic epidermolysis bullosa: genotype/phenotype correlation in a case of moderate clinical severity.

RL J. Invest. Dermatol. 106:119-124(1996).
 RP [15]
 RX VARIANT RDEB ARG-1782.
 RA MEDLINE-96183562; PubMed-8618018;
 RT Christiano A.M., McGrath J.A., Uitto J.;
 "Influence of the second COL7A1 mutation in determining the
 RT phenotypic severity of recessive dystrophic epidermolysis bullosa."
 RL J. Invest. Dermatol. 106:766-770(1996).
 RN [16]
 RP VARIANT RDEB ASP-2073.
 RA MEDLINE-96310789; PubMed-8757758;
 RA Dunnill M.G.S., McGrath J.A., Richards A.J., Christiano A.M.,
 RA Uitto J., Pope F.M., Rady R.A.J.;
 RT "Clinical and pathological correlations of compound heterozygous COL7A1
 RT mutations in recessive dystrophic epidermolysis bullosa."
 RL J. Invest. Dermatol. 107:171-177(1996).
 RN [17]
 RP VARIANTS RDEB W-1982; G-2008; A-2025; E-2049; G-2063; W-2063 AND
 RP R-2575.
 RA MEDLINE-97465605; PubMed-9326325;
 RA Hovanian A., Rochat A., Bodemer C., Petit E., Rivers C.A., Prost C.,
 RA Fraitag S., Christiano A.M., Uitto J., Lathrop M., Barrandon Y.,
 RA de Prost Y.;
 RT "Characterization of 18 new mutations in COL7A1 in recessive
 RT dystrophic epidermolysis bullosa provides evidence for distinct
 RT molecular mechanisms underlying defective anchoring fibril
 RT formation."
 RL Am. J. Hum. Genet. 61:599-610(1997).
 RN [18]
 RP VARIANT RDEB ARG-1652.
 RA MEDLINE-98106792; PubMed-9444387;
 RA Cserhalmi-Friedman P.B., Karpatt S., Horvath A., Christiano A.M.;
 RT "Identification of a glycine substitution and a splice site mutation
 RT in the type VII collagen gene in a proband with milds recessive
 RT dystrophic epidermolysis bullosa."
 RA Arch. Dermatol. Res. 289:640-645(1997).
 RL [19]
 RP VARIANTS DEB ARG-2009 AND ARG-2043.
 RA MEDLINE-97358588; PubMed-9215684;
 RA Weinberg J.-O., Hammami-Hausall N., Nijssen O., Anton-Lamprecht I.,
 RA Naylor S.L., Kerbacher K., Zimmermann M., Krajci P.,
 RA Gedde-Dahl T., Bruckner-Tuderman L.;
 RT "Modulation of disease severity of dystrophic epidermolysis bullosa by
 RT a splice site mutation in combination with a missense mutation in the
 RT COL7A1 gene."
 RL Hum. Mol. Genet. 6:1125-1135(1997).
 RN [20]
 RP VARIANTS DEB ASP-1519; ASP-2006; GLU-2015 AND ARG-2034.
 RA MEDLINE-98334662; PubMed-9668111;
 RA Hammami-Hausall N., Schumann H., Raghunath M., Kilgus O., Luethi U.,
 RA Lager T., Bruckner-Tuderman L.;
 RT "Some, but not all, glycine substitution mutations in COL7A1 result in
 RT intracellular accumulation of collagen VII, loss of anchoring
 RT fibrils, and skin blistering."
 RL J. Biol. Chem. 273:19228-19234(1998).
 RN [21]
 RP VARIANTS DEB CYS-2008; ARG-2207 AND SER-2775.
 RA MEDLINE-98410969; PubMed-9740253;
 RA Kon A., Pulkkinen L., Ishida-Yamamoto A., Hashimoto I., Uitto J.;
 RT "Novel COL7A1 mutations in dystrophic forms of epidermolysis
 RT bullosa."
 RL J. Invest. Dermatol. 111:534-537(1998).
 RN [22]
 RP VARIANT RDEB ARG-1347.
 RA MEDLINE-99019477; PubMed-9804332;
 RA Traccina M., Postoraro P., Schubert M., Sonogo G., Atzori F.,
 RA Zambruno G., Bruckner-Tuderman L., Castiglia D.;
 RT "Compound heterozygosity for a recessive glycine substitution and a
 RT splice site mutation in the COL7A1 gene causes an unusually mild form
 RT of localized recessive dystrophic epidermolysis bullosa."
 RL J. Invest. Dermatol. 111:744-750(1998).
 RN [23]
 RP VARIANTS DEB TRP-2034; VAL-2040; ARG-2043; ARG-2064 AND ASP-2713.

RX MEDLINE-99072663; PubMed-9856843;
 Query Match 4.5%; Score 11; DB 1; Length 2944;
 Best Local Similarity 100.0%; Pred. No. 0.38;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 71 PGLPGRGDPG 81
 DB 1328 PGLPGRGDPG 1338
 RESULT 10
 CAC2_HAECO
 ID CAC2_HAECO STANDARD; PRT; 210 AA.
 AC P16252;
 DT 01-AUG-1990 (Rel. 15, Created)
 DT 01-AUG-1990 (Rel. 15, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE Cuticle collagen 2C (Fragment).
 GN 2C.
 OS Haemonchus contortus (Barber pole worm).
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Strongylida;
 OC Trichostrongyloidea; Haemonchidae; Haemonchinae; Haemonchus.
 OX NCBI_TaxID=6289;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE-90136718; PubMed-2615789;
 RA Shamsky L.M., Pratt D., Boisyevue R.J., Cox G.N.;
 RT "Cuticle collagen genes of Haemonchus contortus and Caenorhabditis
 RT elegans are highly conserved."
 RL Mol. Biochem. Parasitol. 37:73-86(1989).
 CC -1- FUNCTION: NEMATODE CUTICLES ARE COMPOSED LARGELY OF COLLAGEN-LIKE
 CC PROTEINS. THE CUTICLE FUNCTIONS BOTH AS AN EXOSKELETON AND AS A
 CC BARRIER TO PROTECT THE WORM FROM ITS ENVIRONMENT.
 CC -1- MISCELLANEOUS: THIS PROTEIN SHOWS 4 POTENTIAL TRIPLE-HELICAL
 CC REGIONS, WHICH CONTAIN GLYCINE AS EVERY THIRD AMINO ACID.
 CC -1- MISCELLANEOUS: IN ALL NEMATODE CUTICLE COLLAGENS, THE POLYPEPTIDE
 CC CHAINS ARE COMPLEXED WITHIN THE CUTICLE BY DISULFIDE BONDS AND
 CC OTHER TYPES OF COVALENT CROSS-LINKS.
 CC -1- SIMILARITY: BELONGS TO THE CUTICULAR COLLAGEN FAMILY.
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 CC or send an email to license@isb-sib.ch).
 DR EMBL: J04670; AAA29172.1.
 DR Interpro: IPR000087; Collagen.
 DR Pfam: PF01391; Collagen; 3.
 KM Cuticle; Connective tissue; Repeat; Multigene family; Collagen.
 FT NON TER 1 1
 SO SEQUENCE 210 AA; 19562 MW; E15FA9A2DB3D74B CRC64;
 Query Match 4.1%; Score 10; DB 1; Length 210;
 Best Local Similarity 100.0%; Pred. No. 0.31;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 57 GARGPGRGK 66
 DB 151 GARGPGRGK 160
 RESULT 11
 PSPA_CAVPO
 ID PSPA_CAVPO STANDARD; PRT; 247 AA.
 AC P50403;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)

Db 39 GLPGRDGRDG 48

|||||

RESULT 13

PSPA_CANFA STANDARD: PRT: 248 AA.

AC P06908: 01-JAN-1988 (Rel. 06, Created)

DT 01-NOV-1995 (Rel. 32, Last sequence update)

DT 16-OCT-2001 (Rel. 40, Last annotation update)

DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A) (PSP-A).

GN SFTPA1 OR SFTPA OR SFTP1.

OS Canis familiaris (Dog).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.

OX NCBI_TaxID=9615;

RP SEQUENCE FROM N.A. AND SIGNAL SEQUENCE CLEAVAGE SITE.

RX MEDLINE=66016705; PubMed=3863100;

RA Benson B., Hawgood S., Schilling J., Clements J., Damm D., Cordell B., White R.T.;

RT "Structure of canine pulmonary surfactant apoprotein: cDNA and complete amino acid sequence."

RL Proc. Natl. Acad. Sci. U.S.A. 82:6379-6383(1985).

[2]

RP C-TYPE LECTIN DOMAIN.

RX MEDLINE=87115834; PubMed=3808053;

RA Palty L.;

RT "Is lung surfactant protein a lectin-collagen hybrid?"; Nature 325:490-490(1987).

RL "FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS ESSENTIAL FOR NORMAL RESPIRATION."

CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.

CC -1- SUBCELLULAR LOCATION: Extracellular.

CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10% PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS, CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL HYDROPHOBIC PROTEINS (SP-B AND SP-C).

CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.

CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

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CC EMBL: M11769; AAA30887.1; -

DR PIR: A25296; LNDGFS.

DR HSSP: P22897; LEGG.

DR InterPro: IPR000087; Collagen.

DR InterPro: IPR001304; Lectin_C.

DR Pfam: PF00059; Lectin_C.1.

DR Pfam: PF01391; Lectin; 2.

DR SMART: SM00034; CLECT.1.

DR PROSITE: PS00615; C-TYPE LECTIN.1; 1.

DR PROSITE: PS00615; C-TYPE LECTIN.2; 1.

KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation; Signal; Lectin; Collagen; Repeat.

KW CHAIN 1 17

FT SIGNAL 1 17

FT CHAIN 18 248

FT DOMAIN 28 100

FT DOMAIN 153 248

FT DISULFID 155 246

FT DISULFID 224 238

FT CARBOHYD 20 20

A. PULMONARY SURFACTANT-ASSOCIATED PROTEIN

C-TYPE LECTIN-LIKE.

C-TYPE LECTIN (SHORT FORM).

BY SIMILARITY.

N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 207 207 N-LINKED (GLCNAC. . .) (PROBABLE).

SQ SEQUENCE 248 AA; 26268 MW; 340FE95D4E2502C0 CRC64;

Query Match 4.1% Score 10; DB 1; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.35;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDG 54

Db 40 GLPGRDGRDG 49

|||||

RESULT 14

PSPA_HUMAN STANDARD: PRT: 248 AA.

AC P07714: 01-APR-1988 (Rel. 07, Created)

DT 01-APR-1990 (Rel. 14, Last sequence update)

DT 15-JUN-2002 (Rel. 41, Last annotation update)

DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A) (PSP-A).

DE (PSP-A) (Alveolar proteinosis protein) (35 kDa pulmonary surfactant-associated protein).

GN SFTPA1 OR SFTPA OR SFTP1 OR PSPA.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

OX NCBI_TaxID=9606;

RP SEQUENCE FROM N.A.

RX MEDLINE=66250832; PubMed=3755136;

RA Etker J., Steinbrink R., Jacobs K., Phelps D., Kriz R., Recny M., Sultzman L., Jones S., Taesch H.W., Frank H.A., Fritsch E.F.;

RT "Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfactant-associated protein."

RL J. Biol. Chem. 261:9029-9033(1986).

[2]

RP SEQUENCE FROM N.A.

RX MEDLINE=86014366; PubMed=2995821;

RA White R.T., Damm D., Miller J., Spratt K., Schilling J., Hawgood S., Benson B., Cordell B.;

RT "Isolation and characterization of the human pulmonary surfactant apoprotein gene."

RL Nature 317:361-363(1985).

[3]

RP SEQUENCE FROM N.A.

RX MEDLINE=92198680; PubMed=1372511;

RA Katyal S.L., Singh G., Locker J.L.;

RT "Characterization of a second human pulmonary surfactant-associated protein SP-A gene."

RL Am. J. Respir. Cell Mol. Biol. 6:446-452(1992).

CC -1- FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS ESSENTIAL FOR NORMAL RESPIRATION.

CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.

CC -1- SUBCELLULAR LOCATION: Extracellular.

CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10% PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS, CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL HYDROPHOBIC PROTEINS (SP-B AND SP-C).

CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.

CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

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CC EMBL: M13686; AAA60211.1; -

DR EMBL: K03475; AAA36520.1; -

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DR EMBL: M30838; AAA36510.1; -
DR EMBL: M68519; AAA60319.1; -
DR PIR: A24622; LNHUP5.
DR PIR: A25720; LNHUP6.
DR PIR: B25720; LNHUP1.
DR HSSP: P22897; IEGG.
DR Genew: HGNC:10799; SFTPA2.
DR Genew: HGNC:10798; SFTPA1.
DR MIM: 178630; -
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; lectin_c; 1.
DR Pfam: PF01391; Collagen; 2.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C-TYPE_LLECTIN_1; 1.
DR PROSITE: PS50041; C-TYPE_LLECTIN_2; 1.
DR GlycoProtein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat; Polymorphism.
FT SIGNAL 1 20
FT CHAIN 21 248
FT DOMAIN 28 100
FT DISULFID 153 248
FT DISULFID 155 246
FT CARBOHYD 224 238
FT CARBOHYD 207 207
FT VARIANT 9 9
FT VARIANT 50 50
FT VARIANT 66 66
FT VARIANT 73 73
FT VARIANT 81 81
FT VARIANT 85 85
FT VARIANT 219 219
FT VARIANT 223 223
FT VARIANT 19 19
FT CONFLICT 45 45
FT CONFLICT 54 54
FT CONFLICT 91 91
FT CONFLICT 100 100
FT CONFLICT 247 247
SQ SEQUENCE 248 AA; 26214 MW; 6A9F0C3488BF3633 CRC64;

Query Match 4.1%; Score 10; DB 1; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
DB 40 GLPGRDGRDG 49

```

```

RESULT 15
PSPA_MOUSE STANDARD; PRT; 248 AA.
AC P35242;
DT 01-FEB-1994 (Rel. 28, Created)
DT 01-FEB-1994 (Rel. 28, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Pulmonary surfactant-associated protein A precursor (SP-A) (PSP-A)
DE (PSP-A).
GN SFTPA1 OR SFTPA OR SFTPI OR SFTPI-1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC NCBI_TaxId=10090;

```

```

RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-DBA/2J;
RX MEDLINE-93072386; PubMed-1443158;
RA Korthagen T.R., Bruno M.D., Glasser S.W., Ciruolo P.J., Whitsett J.A.,
RA Latier D.L., Wikenheiser K.A., Clark J.C.;
RT "Murine pulmonary surfactant SP-A gene: cloning, sequence, and
transcriptional activity."
RL Am. J. Physiol. 263:L546-L554(1992).
CC -1- FUNCTION: IN PRESENCE OF CALCIUM IONS, PSPA BINDS TO SURFACTANT
CC PHOSPHOLIPIDS AND CONTRIBUTES TO LOWER THE SURFACE TENSION AT THE
CC AIR-LIQUID INTERFACE IN THE ALVEOLI OF THE MAMMALIAN LUNG AND IS
CC ESSENTIAL FOR NORMAL RESPIRATION.
CC -1- SUBUNIT: OLIGOMERIC COMPLEX OF 6 SET OF HOMOTRIMERS.
CC -1- MISCELLANEOUS: PULMONARY SURFACTANT CONSISTS OF 90% LIPID AND 10%
CC PROTEIN. THERE ARE 4 SURFACTANT ASSOCIATED PROTEIN: 2 COLLAGENOUS,
CC CARBOHYDRATE-BINDING GLYCOPROTEINS (SP-A AND SP-D) AND 2 SMALL
CC HYDROPHOBIC PROTEINS (SP-B AND SP-C).
CC -1- SIMILARITY: CONTAINS A COLLAGENOUS DOMAIN.
CC -1- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
CC -----
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CC -----
DR EMBL: S48768; AAB24274.1; -
DR PIR: A48853; A48853.
DR HSSP: P35247; 1B08.
DR MGD: MGI:109518; Sftpa.
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR001304; Lectin_C.
DR Pfam: PF00059; lectin_c; 1.
DR Pfam: PF01391; Collagen; 2.
DR SMART: SM00034; CLECT; 1.
DR PROSITE: PS00615; C-TYPE_LLECTIN_1; 1.
DR PROSITE: PS50041; C-TYPE_LLECTIN_2; 1.
KW Glycoprotein; Calcium; Surface film; Gaseous exchange; Hydroxylation;
KW Signal; Lectin; Collagen; Repeat.
FT SIGNAL 1 20
FT CHAIN 21 248
FT DOMAIN 28 100
FT DISULFID 153 248
FT DISULFID 155 246
FT CARBOHYD 224 238
FT CARBOHYD 207 207
SQ SEQUENCE 248 AA; 26157 MW; 6688BF070E3EB9AE CRC64;

Query Match 4.1%; Score 10; DB 1; Length 248;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
DB 40 GLPGRDGRDG 49

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Search completed: June 18, 2003, 15:04:24
Job time : 32 secs

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OM protein - protein search, using sw model

Run on: June 18, 2003, 14:48:42 ; Search time 39 Seconds
(Without alignments)
598,991 Million cell updates/sec

Title: US-09-943-851A-42
Perfect score: 1325
Sequence: 1 MRPLVLLLLGLAAGSPPLD.....DSTFGFLVYSDMHSSPVFA 243

Scoring table:
BLOSUM62
Gapop 10.0 , Capext 0.5

Searched: 283224 seqs, 96134422 residues
Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: PIR1:
2: PIR2:
3: PIR3:
4: PIR4:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1207	91.1	219	2	T14782
2	424	32.0	244	2	JC4708
3	418.5	31.6	680	1	CGHUI0
4	416.5	31.4	674	2	S23297
5	412	31.1	246	2	S29328
6	411.5	31.1	674	2	S13301
7	408	30.1	680	2	S31216
8	399	30.1	245	1	C1H00C
9	374	28.2	744	1	A34246
10	370	27.9	744	1	S23298
11	363.5	27.4	743	1	S23779
12	363	27.3	635	3	A57131
13	362	27.3	253	1	C1H00B
14	360.5	27.2	253	3	S49158
15	359	27.1	744	2	S15435
16	351	26.5	253	2	I49560
17	316	23.8	423	2	A55797
18	314	23.7	245	1	C1H00A
19	314	23.7	245	1	S19018
20	280.5	21.2	215	2	B48150
21	277.5	20.9	215	2	A48150
22	261.5	19.7	196	2	A48150
23	238.5	18.0	992	2	T08772
24	230.5	17.4	1049	1	CG8075
25	227.5	17.0	248	2	E15921
26	225.5	17.0	248	1	LNHUP1
27	225	16.9	325	2	T32248
28	224	16.9	636	2	S41067
29	223	16.8	1464	2	S59856

30	222.5	16.8	1758	2	T29350	hypothetical prote
31	222.5	16.8	1759	2	T29351	collagen alpha 2(I
32	222	16.8	360	2	T37285	collagen dpy-2 - C
33	221.5	16.7	170	2	B57131	collagen alpha 2(V
34	221	16.7	886	2	I50694	collagen alpha 1(I
35	221	16.7	1019	1	A32856	collagen alpha 1(I
36	220	16.6	248	1	LNDGPS	pulmonary surfacta
37	220	16.6	341	2	T16296	hypothetical prote
38	220	16.6	380	2	T28888	cuticle collagen d
39	219.5	16.6	247	1	LNRBPS	pulmonary surfacta
40	219.5	16.6	381	2	T27806	hypothetical prote
41	219.5	16.6	673	1	CG806C	collagen alpha 1(I
42	219.5	16.6	1466	1	CGH07L	collagen alpha 1(I
43	219	16.5	671	1	CGRTIS	collagen alpha 1(I
44	218.5	16.5	1453	2	S21626	collagen alpha 1(I
45	217	16.4	283	2	T29980	hypothetical prote

ALIGNMENTS

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RESULT 1
T14782
hypothetical protein DKFZP586B0621.1 - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 02-Sep-2000
C:Accession: T14782
R:Ottewaelder, B.; Obermaier, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, August 1999
A:Reference number: Z18184
A:Accession: T14782
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-219 <OT>
A:Cross-references: EMBL:AL110261
A:Experimental source: adult uterus; clone DKFZP586B0621
C:Genetics:
A>Note: DKFZP586B0621.1
C:Superfamily: complement C1q carboxyl-terminal homology

Query Match          91.1%; Score 1207; DB 2; Length 219;
Best Local Similarity 100.0%; Pred. No. 1.3e-77;
Matches 219; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 25 PSLCPGHRLPCTPRGHSGSLPRGDRGRCARGARCEKGGRRPLGPRGDPGPRG 84
    |||||||
DB 1 PSLCPGHRLPCTPRGHSGSLPRGDRGRCARGARCEKGGRRPLGPRGDPGPRG 60
QY 85 EAGPAGPTGPGAGCSVPPSAFSAKRSERVPSPDAPLPFDRLVNEQGHYDAVTGKFT 144
    |||||||
DB 61 EAGPAGPTGPGAGCSVPPSAFSAKRSERVPSPDAPLPFDRLVNEQGHYDAVTGKFT 120
QY 145 CQVPGVYFAVHATYVRASLQFDLVKNGESIASFFQFCGWPCKPASLSGAMVRLPEPDQ 204
    |||||||
DB 121 CQVPGVYFAVHATYVRASLQFDLVKNGESIASFFQFCGWPCKPASLSGAMVRLPEPDQ 180
QY 205 VAVQVGVDYIGITVASIKTDSFSGFLVYSDMHSSPVFA 243
    |||||||
DB 181 VAVQVGVDYIGITVASIKTDSFSGFLVYSDMHSSPVFA 219

RESULT 2
JC4708
gelatin-binding 28k protein precursor - human
N:Alternate names: adipose specific collagen-like factor
C:Species: Homo sapiens (man)
C:Date: 10-May-1996 #sequence_revision 19-Jul-1996 #text_change 20-Sep-1999
C:Accession: JC4708; Jc4944
R:Maeda, K.; Okubo, K.; Shimomura, I.; Funahashi, T.; Matsuzawa, Y.; Matsubara, K.
Biochem. Biophys. Res. Commun. 221, 286-289, 1996
A:Title: cDNA cloning and expression of a novel adipose specific collagen-like factor
A:Reference number: JC4708; MUID:96224171; PMID:8619847
A:Accession: JC4708

```


OY 133 QGHYDAVTGKTCQVPGVYFAVHATVYRASLOFDLVKNGESTIA-SFPOFGGMPKPAFL 191
 Db 579 QQHHDRTGTCFTQICPGIYFSYHVKGTWVWVGKGTTPMVTYDEYTKGLDQA-- 636
 OY 192 SGGAMVRLPEEDVWVQVGDYIGIYASIKTSTFSGFLV 232
 Db 637 SGSAITLDLENDVQWLDLPNAESNGLSYSEYVHSSFSGLV 677

RESULT 4

S23297
 collagen alpha 1(X) chain precursor - chicken
 N/Alternate names: type X collagen
 C/Species: Gallus gallus (chicken)
 C/Date: 07-Oct-1994 #sequence_revision 10-Nov-1995 #text_change 13-Aug-1999
 C/Accession: S23297; A31896; S65594; S77711; I50218
 R/Monomiya, Y.; Castagnola, P.; Gerecke, D.; Gordon, M.K.; Jacenko, O.; LuValle, P.; McC
 maguchi, N.; Olsen, B.R.
 In Extracellular Matrix Genes, Sandell L.J. and Boyd C.D., eds., pp.79-114, Academic Pre
 A/Title: The molecular biology of collagens with short triple-helical domains.
 A/Reference number: S22243
 A/Accession: S23297
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-674 <NIN>
 R/LuValle, P.; Monomiy, Y.; Rosenblum, N.D.; Olsen, B.R.
 J. Biol. Chem. 263, 18378-18385, 1988
 A/Title: The type X collagen gene. Intronic sequences split the 5'-untranslated region and
 A/Reference number: A31896; MUID:89054019; PMID:2461368
 A/Accession: A31896
 A/Molecule type: mRNA
 A/Residues: 1-75 <LNU>
 R/Monomiya, Y.; Gordon, M.; van der Rest, M.; Schmid, T.; Linsenmayer, T.; Olsen, B.R.
 J. Biol. Chem. 261, 5041-5050, 1986
 A/Title: The developmentally regulated type X collagen gene contains a long open reading
 A/Reference number: I50218; MUID:86188227; PMID:3082876
 A/Accession: S65594
 A/Molecule type: DNA
 A/Residues: 'T','D','11-12','EDOMKLYLFTW','30-31','TCKSGRAFTYMLONVADLVSSH',48-89,'L',
 629,'PAVSLISMRKICSSCOINPMVSIPLNMFILSOVSYLKSNIPLTWS' <NINI>
 A/Cross-references: EMBL:MA3496; NID:g211699; PIND:AAA48736.1; PID:g211700
 A/Accession: S77711
 A/Molecule type: protein
 A/Residues: 104-112, 'X', 114-117, 453-466 <NIN2>
 C/Superfamily: collagen alpha 1(VIII) chain; complement C1q carboxyl-terminal homology
 C/Keywords: collid coll; extracellular matrix; glycoprotein; homotrimer; hydroxyproline;
 F:1-18/Domain: signal sequence #status predicted <SIG>
 F:547-673/Domain: complement C1q carboxyl-terminal homology <C1Q>
 F:453,456/Modified site: hydroxyproline (Pro) #status experimental
 F:611/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 31.4%; Score 416.5; DB 2; Length 674;
 Best Local Similarity 36.0%; Pred. No. 7, 3e-22;
 Matches 96; Conservative 34; Mismatches 84; Indels 53; Gaps 6;

OY 14 AGSPBLDDNKRIPSLCPHPLPCTPGHNGSGLPGRDGRDRCAPGAPGEGCGRGL 73
 Db 408 AGPPGLRGPVGPQGVKGVPCINGEPRGPRSGIPGIRGIPGPPMPGAPGAKBAGAPGL 467
 OY 74 PGPR-----GPPGRGEA-----GPAPTPPAGECSVP----- 101
 Db 468 PGPRAGIATKGLRGMCPGPRGPGKNGSGEPLRPPPPPPPOSTTPEGVYGESRELS 527
 OY 102 -----PRSAFSAKRSRVPSPSDALPDRVLYVNEQHYDAVTGKFTC 145
 Db 528 GMSFMKAGANQALGTVSAFYILSNAY---PGATVIRKDKILYNQCHDRTGTGFTC 565
 OY 146 QVPGVYFAVHATVYRASLOFDLVKNGESTIA-SFPOFGGMPKPAFLPEEDQ 204
 Db 586 RIRPLVYFHVHAKGTNVMVALYKNGSPVMTYDEYKGLDQA--SGSAVIDLMENDQ 643
 OY 205 VMOVGVGDYIGIYASIKTSTFSGFL 231

Db 644 VWQLPNSKNGLSYSEYVHSSFSGL 670

RESULT 5

S29328
 complement subcomponent C1q chain C - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 20-Aug-1999
 C/Accession: S29328
 R/Petry, F.; Reid, K.B.M.; Loos, M.
 Eur. J. Biochem. 209, 129-134, 1992
 A/Title: Isolation, sequence analysis and characterization of cDNA clones coding for
 ecebelin.
 A/Reference number: S29328; MUID:93011118; PMID:1396691
 A/Accession: S29328
 A/Status: preliminary
 A/Molecule type: mRNA
 A/Residues: 1-246 <PEP>
 A/Cross-references: EMBL:X66295; NID:g50228; PIND:CAA46993.1; PID:g50229
 C/Superfamily: complement subcomponent C1q chain A; complement C1q carboxyl-terminal
 F:122-245/Domain: complement C1q carboxyl-terminal homology <C1Q>

Query Match 31.1%; Score 412; DB 2; Length 246;
 Best Local Similarity 42.2%; Pred. No. 5, 4e-22;
 Matches 103; Conservative 33; Mismatches 84; Indels 24; Gaps 10;

OY 4 LVLVLLGLAAGSPPLDNRKIPSLC---GPHGLPCTPGHNGSGLPGRDGRDRCAPG 60
 Db 15 LLLLFLLAL-----PL-RSQASAGCYGICGMPGAPGKDHGICGPKGPGIAPVG 68
 OY 61 ARCEKEGGRPLPGRDPGRGEA---GPAPTPPAGECSVPR-----SAPSAKRS 111
 Db 69 TGGPKQCKEPPGPGHKGNGPGTSGLDGDPGRGPRGPEPEVEGCHYKOKHOSVETVTKQ 128
 OY 112 ESRVPEPPAPLPFDVLVNEQGHYDAVTGKTCQVYFAVHATVYRASLOFDLVKN 171
 Db 129 TTYQ-PEANALVFNENVNPGCHYTPSGKFTCEVPLGYF-VYTSITANLCVILNIN 186
 OY 172 GESIASFQFGGMPKPAFLPEEDVWVQVGDYIGIYASIKTSTFSGFL 231
 Db 187 LARVASFCDHMFN-SKQVS-SGGALLRLQGRDEVW--LSVNDYNGMVGIEGSNSVSGFL 242

OY 232 VYSD 235
 Db 243 LPED 246

RESULT 6

S13301
 collagen alpha 1(X) chain precursor - bovine
 C/Species: Bos primigenius taurus (cattle)
 C/Date: 21-Nov-1993 #sequence_revision 23-Feb-1996 #text_change 13-Aug-1999
 C/Accession: S13301
 R/Thomas, J.T.; Kwan, A.P.L.; Grant, M.E.; Booc-Handford, R.P.
 Biochem. J. 273, 141-148, 1991
 A/Title: Isolation of cDNAs encoding the complete sequence of bovine type X collagen.
 A/Reference number: S13301; MUID:91113131; PMID:1703407
 A/Accession: S13301
 A/Molecule type: mRNA
 A/Residues: 1-674 <THO>
 A/Cross-references: EMBL:X53556; NID:g263; PIND:CAA37624.1; PID:g264
 A/Genetics: COL10A1
 C/Superfamily: collagen alpha 1(VIII) chain; complement C1q carboxyl-terminal homology
 C/Keywords: collid coll; extracellular matrix; glycoprotein; homotrimer
 F:1-18/Domain: signal sequence #status predicted <SIG>
 F:19-674/Product: collagen alpha 1(X) chain #status predicted <MAT>
 F:547-673/Domain: complement C1q carboxyl-terminal homology <C1Q>

Query Match 31.1%; Score 411.5; DB 2; Length 674;
 Best Local Similarity 34.9%; Pred. No. 1, 6e-21;
 Matches 96; Conservative 34; Mismatches 84; Indels 61; Gaps 6;

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OM protein - protein search, using sw model

Run on: June 18, 2003, 14:40:55 ; Search time 83 Seconds
(Without alignments)
390.119 Million cell updates/sec

Title: US-09-943-851A-42
Perfect score: 1325
Sequence: 1 MRLVLVLLGLGLAASPPLD.....DSFGFLVYSQWHSVPFA 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues
Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /SID2/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SID2/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
3: /SID2/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
4: /SID2/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
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11: /SID2/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:*
12: /SID2/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:*
13: /SID2/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:*
14: /SID2/gcgdata/geneseq/geneseq-emb1/AA1993.DAT:*
15: /SID2/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:*
16: /SID2/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:*
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18: /SID2/gcgdata/geneseq/geneseq-emb1/AA1997.DAT:*
19: /SID2/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:*
20: /SID2/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:*
21: /SID2/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
22: /SID2/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
23: /SID2/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1325	100.0	243	20	AAV06481 Human tumour-associ
2	1325	100.0	243	20	AAV17827 Human PRO344 prote
3	1325	100.0	243	20	AAW97984 Human adipocyte-sp
4	1325	100.0	243	21	AA8334C1 Human PRO344 prote
5	1325	100.0	243	21	AAV71468 Human PRO344 prote
6	1325	100.0	243	21	AAV93688 Human acid sequenc
7	1325	100.0	243	21	AA801318 Human PRO344 polyp
8	1325	100.0	243	22	AAU12352 Human PRO344 polyp
9	1325	100.0	243	22	AA865815 Human TANGO 253 SE
10	1325	100.0	243	22	AA849593 Human adipocyte co

11	1325	100.0	243	22	AA849599 Human adipocyte co
12	1323	99.8	243	22	AA865891 Human secreted pro
13	1321	99.7	243	22	AA865888 Human secreted pro
14	1321	99.7	243	22	AA865889 Human secreted pro
15	1321	99.7	243	21	AA865890 Human secreted pro
16	1271	95.9	243	21	AAV76040 Rat skin cell prote
17	1271	95.9	243	22	AA855979 Skin cell protein,
18	1271	95.9	243	23	AA872179 Rat protein isolat
19	1258	94.9	243	22	AA865820 Murine TANGO 253 S
20	1256	94.8	228	22	AA865816 Murine mature TANG
21	1256	94.8	243	22	AA865899 Murine secreted pr
22	1254	94.6	243	22	AA865897 Murine secreted pr
23	1254	94.6	243	22	AA865898 Murine secreted pr
24	1243.5	93.8	242	22	AA865896 Murine secreted pr
25	1200	90.6	228	22	AA865821 Murine mature TANG
26	1183	89.3	220	22	ABG12724 Novel human diagno
27	1048	79.1	201	23	AAO21663 Human secreted pro
28	675	50.9	128	22	AA865819 Human TANGO 253 C1
29	650	49.1	128	22	AA865824 Murine TANGO 253 C
30	478	36.1	151	22	ABG12723 Novel human diagno
31	449.5	33.9	225	23	AB880583 Human sbg1033026C1
32	442.5	33.4	243	23	AB880582 Human sbg1033026C1
33	433.5	32.7	247	18	AAW09107 Murine adipocyte c
34	433.5	32.7	247	22	AAE05528 Mouse OBG3 protein
35	433.5	32.7	247	23	AB808222 Mouse acrp30 prote
36	425	32.1	244	18	AAW09108 Human adipocyte co
37	424.5	32.0	247	22	AAE05527 Mouse OBG3 protein
38	424.5	32.0	247	23	AB808221 Mouse adipocyte prote
39	424	32.0	244	20	AAV21807 Adipose most abund
40	424	32.0	244	21	AA830233 Human adipocyte co
41	424	32.0	244	21	AAV71035 Human APM1 (Adipos
42	424	32.0	244	22	AAE05529 Human OBG3 protein
43	424	32.0	244	22	AA865828 Human adipocyte co
44	424	32.0	244	22	AA849592 Human ACRP30 prote
45	424	32.0	244	22	AA849598 Human ACRP30 prote

ALIGNMENTS

RESULT 1	AAV06481	AAV06481 standard; Protein: 243 AA.
ID	AAV06481	
XX	XX	
AC	AAV06481	
XX	XX	
DT	27-SEP-1999	(first entry)
XX	XX	
DE	Human tumour-associated protein PRO344.	
XX	XX	
KW	PRO344; UNQ303; cancer; tumour; diagnosis; therapy; human.	
XX	XX	
OS	Homo sapiens.	
XX	XX	
FH	key	Location/Qualifiers
FT	Peptide	1..15
FT	/note="signal peptide"	/note="signal peptide"
FT	Protein	16..243
FT	/note="mature protein"	/note="mature protein"
FT	Modified-site	68..215
FT	/note="N-myristoylated"	/note="N-myristoylated"
FT	Modified-site	216..243
FT	/note="N-myristoylated"	/note="N-myristoylated"
XX	XX	
PN	W09935170-A2.	
XX	XX	
PD	15-JUL-1999.	
XX	XX	
PF	05-JAN-1999;	99MO-US00106.
XX	XX	
PR	20-NOV-1998;	98US-0109304.
PR	05-JAN-1998;	98US-0070440.
PR	29-APR-1998;	98US-0083500.

PR 22-MAY-1998; 9805-0086414.
 PR 10-JUN-1998; 9805-0088742.
 PR 10-NOV-1998; 9805-0107783.
 XX
 PA (GETH) GENENTECH INC.
 PI Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;
 PI Roy MA, Wood WI;
 XX
 DR WPI: 1999-430385/36.
 DR N-PSDB: AAX87258.
 XX
 PT Antibody against proteins expressed in neoplastic cells, useful for
 PT tumor diagnosis and treatment
 XX
 PS Example 1, Fig 10; 162pp; English.
 CC This sequence represents human PRO344 (UNQ303), a protein encoded
 CC by the novel cDNA clone DNA40592 (see AAX87258). Amplification of
 CC DNA40592 was observed in primary lung tumours and in primary colon
 CC tumours, suggesting a significant role in tumour formation and
 CC growth. Antagonists (e.g. antibodies) directed to PRO344 may have
 CC use in cancer therapy. The invention identifies 14 genes (see
 CC AAX87254-67) that are amplified in the genome of tumour cells. Such
 CC amplification is expected to be associated with overexpression of
 CC the gene product and to contribute to tumorigenesis. The encoded
 CC proteins (see AAY06477-90) may be useful targets for the diagnosis
 CC and/or treatment (including prevention) of certain cancers, and may
 CC act as predictors of the prognosis of tumour treatment. Antibodies
 CC that bind the proteins are claimed and used in claimed cancer
 CC diagnostic kits.
 CC
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 20; Length 243;
 Best Local Similarity 100.0%; Pred. NO. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPRLDNRKIPSLCPGHPGLPCTPGHNGSQGLPRGRDGRDGRGAPG 60
 DB 1 MRPLVLLLLGLAAGSPRLDNRKIPSLCPGHPGLPCTPGHNGSQGLPRGRDGRDGRGAPG 60
 QY 61 APGKGGGGRGRLPGPRGDPGRGEGAPRAGPTGACGCSVPPRSATSAKRSSESRVPPSD 120
 DB 61 APGKGGGGRGRLPGPRGDPGRGEGAPRAGPTGACGCSVPPRSATSAKRSSESRVPPSD 120
 QY 121 APLPFDRLVNEOGHYDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVNKGESIASFFQ 180
 DB 121 APLPFDRLVNEOGHYDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVNKGESIASFFQ 180
 QY 181 FFGGMPKPASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSDMHSSP 240
 DB 181 FFGGMPKPASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSDMHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243
 XX
 RESULT 2
 ID AAY17827 standard; Protein; 243 AA.
 AC AAY17827;
 XX
 DT 12-AUG-1999 (first entry)
 XX
 DE Human PRO344 protein sequence.
 XX
 KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine;
 KW secreted protein; transmembrane protein; inflammation disorder.
 XX
 OS Homo sapiens.

XX
 PN WO928462-A2.
 XX
 PD 10-JUN-1999.
 XX
 PF 01-DEC-1998; 98MO-US25108.
 XX
 XX 25-FEB-1998; 9805-0075945.
 PR 03-DEC-1997; 9705-0067411.
 PR 11-DEC-1997; 9705-0069278.
 PR 11-DEC-1997; 9705-0069334.
 PR 11-DEC-1997; 9705-0069335.
 PR 12-DEC-1997; 9705-0069425.
 PR 16-DEC-1997; 9705-0069694.
 PR 16-DEC-1997; 9705-0069696.
 PR 16-DEC-1997; 9705-0069702.
 PR 17-DEC-1997; 9705-0069870.
 PR 18-DEC-1997; 9705-0069873.
 PR 05-JAN-1998; 9805-0070440.
 PR 09-FEB-1998; 9805-0074086.
 PR 09-FEB-1998; 9805-0074092.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
 PI Yuan J;
 XX
 DR WPI: 1999-371118/31.
 DR N-PSDB: AAX80052.
 XX
 PT Nucleic acids encoding PRO secreted and transmembrane proteins
 XX
 PS Claim 12; Fig 21; 123pp; English.
 CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy,
 CC identification of homologues, raising antibodies and design of probes
 CC and primers. They can be used in a range of diseases related to proteins
 CC that they have homology with, e.g. a PRO protein having homology to
 CC complement proteins may be used in inflammatory responses.
 CC
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 20; Length 243;
 Best Local Similarity 100.0%; Pred. NO. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAAGSPRLDNRKIPSLCPGHPGLPCTPGHNGSQGLPRGRDGRDGRGAPG 60
 DB 1 MRPLVLLLLGLAAGSPRLDNRKIPSLCPGHPGLPCTPGHNGSQGLPRGRDGRDGRGAPG 60
 QY 61 APGKGGGGRGRLPGPRGDPGRGEGAPRAGPTGACGCSVPPRSATSAKRSSESRVPPSD 120
 DB 61 APGKGGGGRGRLPGPRGDPGRGEGAPRAGPTGACGCSVPPRSATSAKRSSESRVPPSD 120
 QY 121 APLPFDRLVNEOGHYDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVNKGESIASFFQ 180
 DB 121 APLPFDRLVNEOGHYDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVNKGESIASFFQ 180
 QY 181 FFGGMPKPASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSDMHSSP 240
 DB 181 FFGGMPKPASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSDMHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243
 XX
 RESULT 3
 AAN97984

ID AAM97984 standard; Protein; 243 AA.
 XX AAM97984;
 AC
 XX
 DT 21-JUN-1999 (first entry)
 XX
 XX Human adipocyte-specific protein zsig39.
 DE
 XX Human adipocyte-specific protein zsig39.
 KM Adipocyte-specific protein; zsig39; human; fatty acid metabolism;
 XX energy balance; nutrition; antimicrobial.
 OS
 XX Homo sapiens.
 FH
 FT Key Location/Qualifiers
 FT Peptide 1..15 "signal peptide, alternatively the signal
 FT Protein /note= "peptide comprises residues 1..18"
 FT 16..243
 FT /note= "mature protein, alternatively the mature
 FT protein comprises residues 19..243
 FT (specifically claimed in Claim 4)"
 FT 30..96
 FT /note= "collagen-like domain"
 FT 98..243
 FT /note= "globular domain"
 FT 105..109
 FT /note= "beta strand"
 FT 128..130
 FT /note= "beta strand"
 FT 136..139
 FT /note= "beta strand"
 FT 143..146
 FT /note= "beta strand"
 FT 164..171
 FT /note= "beta strand"
 FT 176..182
 FT /note= "beta strand"
 FT 187..200
 FT /note= "beta strand"
 FT 204..210
 FT /note= "beta strand"
 FT 226..231
 FT /note= "beta strand"
 FT 111..135
 FT /note= "receptor binding domain"
 FT 170..174
 FT /note= "receptor binding domain"
 FT Domain
 PN MO9910492-A1.
 XX
 PD 04-MAR-1999.
 XX
 PF 26-AUG-1998; 98MO-US17724.
 XX
 PR 26-AUG-1997; 97US-0056983.
 PA (ZYMO) ZYMOGENETICS INC.
 XX
 PI Humes JM, Sheppard PO;
 XX
 XX MPI: 1999-204665/17.
 DR N-PSDB; AAX24684.
 XX
 XX zsig39 protein - used to modulate fatty acid metabolism
 PS Claim 1; 111-112; 132pp; English.
 CC This polypeptide comprises human adipocyte-specific protein zsig39,
 CC a protein that modulates free fatty acid metabolism. zsig39 is a
 CC member of a family of proteins having a globular domain and a
 CC collagen-like domain capable of dimerisation or oligomerisation.
 CC zsig39 polypeptides were initially identified by querying an EST
 CC database for secretory signal sequences characterised by an upstream

CC methionine start site, a hydrophobic region of approximately 13
 CC amino acids and a cleavage site. A single EST sequence was
 CC discovered, and the novel polypeptide encoded by the full-length
 CC cDNA allowed the identification of a homologue relationship with
 CC adipocyte complement related protein Acyr30 and adipocyte secreted
 CC protein apM1. A full-length clone (see AAX24684) was obtained from a
 CC lung tissue library. Expression vectors, cultured cells and a
 CC method of producing zsig39 polypeptide are claimed, as well as
 CC zsig39 polypeptides having N- or C-terminal affinity tags, toxins,
 CC radionuclides, enzymes or fluorophores, fusion proteins
 CC including zsig39 polypeptides, an antibody that specifically
 CC binds to an epitope of zsig39, and a method for modulating free
 CC fatty acid metabolism by administering a zsig39 polypeptide. The
 CC zsig39 polypeptide may also be used in organ preservation, for
 CC cryopreservation, for surgical pretreatment to prevent injury due
 CC to ischaemia and/or inflammation, and as an antimicrobial agent,
 CC promoting lysis or phagocytosis of infectious agents.
 CC
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 1325; DB 20; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLILGLAAGSPPLDNRKIPSLCPGHPLPCTPGHSGSLPGRGDRGRCARG 60
 DB 1 MRPLVLLILGLAAGSPPLDNRKIPSLCPGHPLPCTPGHSGSLPGRGDRGRCARG 60
 QY 61 APGEKGGGRGRLPGPRGDPGRGEGAPGPGPAGCEGCVPPRPAFAKRSRRPPSPD 120
 DB 61 APGEKGGGRGRLPGPRGDPGRGEGAPGPGPAGCEGCVPPRPAFAKRSRRPPSPD 120
 QY 121 APLEPRVLYNQGHDATGKFTCCVPGVYFAVATYRRASLDLKKNESTASFPQ 180
 DB 121 APLEPRVLYNQGHDATGKFTCCVPGVYFAVATYRRASLDLKKNESTASFPQ 180
 QY 181 FFGGMPKPSLSGCAVRLPEPDQVWVQGVGDIYIGIVASITDSTFFSGFLYSDWHSSP 240
 DB 181 FFGGMPKPSLSGCAVRLPEPDQVWVQGVGDIYIGIVASITDSTFFSGFLYSDWHSSP 240
 QY 241 VFA 243
 DB 241 VFA 243
 RESULT 4
 AAB33461
 ID AAB33461 standard; Protein; 243 AA.
 AC AAB33461;
 XX
 DT 29-JAN-2001 (first entry)
 XX
 XX Human PRO344 protein UNQ303 SEQ ID NO:241.
 DE
 XX
 XX Human; immune related disease; diagnosis; antinflammatory; cardiant;
 KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
 KW haemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;
 KW antinaeemic; hepatotropic; virucide; antipsoriatic; antifungal;
 KW osteoarthritis; systemic lupus erythematosus; rheumatoid arthritis;
 KW osteoarthritis; spondyloarthritis; systemic sclerosis; sarcoidosis;
 KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
 KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
 KW autoimmune thrombocytopenia; immune-mediated renal disease;
 KW demyelinating disease; hepatobiliary disease; Whipple's disease;
 KW inflammatory bowel disease; gluten-sensitive enteropathy;
 KW autoimmune disease; immune-mediated skin disease; allergic disease;
 KW immunological disease; transplantation associated disease;
 KW graft rejection; graft-versus-host-disease.
 XX
 XX Homo sapiens.
 OS
 XX
 PN MO200053758-A2.

XX 14-SEP-2000.
 XX 02-MAR-2000; 2000MO-US05841.
 XX 08-MAR-1999; 99MO-US05028.
 PR 10-MAR-1999; 99US-0123618.
 PR 12-MAR-1999; 99US-0123957.
 PR 23-MAR-1999; 99US-0125775.
 PR 12-APR-1999; 99US-0128849.
 PR 20-APR-1999; 99MO-US08615.
 PR 28-APR-1999; 99US-0131445.
 PR 04-MAY-1999; 99US-0132371.
 PR 14-MAY-1999; 99US-0134287.
 PR 02-JUN-1999; 99MO-US12252.
 PR 23-JUN-1999; 99US-0141037.
 PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145688.
 PR 28-JUL-1999; 99US-0146222.
 PR 01-SEP-1999; 99MO-US20111.
 PR 08-SEP-1999; 99MO-US20594.
 PR 13-SEP-1999; 99MO-US20944.
 PR 15-SEP-1999; 99MO-US21090.
 PR 15-SEP-1999; 99MO-US21547.
 PR 05-OCT-1999; 99MO-US23089.
 PR 29-OCT-1999; 99US-0162506.
 PR 29-NOV-1999; 99MO-US28214.
 PR 30-NOV-1999; 99MO-US28313.
 PR 30-NOV-1999; 99MO-US28409.
 PR 01-DEC-1999; 99MO-US28301.
 PR 02-DEC-1999; 99MO-US28634.
 PR 02-DEC-1999; 99MO-US28551.
 PR 02-DEC-1999; 99MO-US28564.
 PR 16-DEC-1999; 99MO-US28565.
 PR 20-DEC-1999; 99MO-US30095.
 PR 30-DEC-1999; 99MO-US31274.
 PR 05-JAN-2000; 2000MO-US00219.
 PR 06-JAN-2000; 2000MO-US00277.
 PR 11-FEB-2000; 2000MO-US00376.
 PR 18-FEB-2000; 2000MO-US04341.
 PR 18-FEB-2000; 2000MO-US04342.
 PR 22-FEB-2000; 2000MO-US04414.
 XX (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
 PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
 PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
 XX N-PSDB; AAC58626.
 DR WPI: 2000-572271/53.
 XX Sixty four PRO polypeptides, useful in the diagnosis and treatment of
 PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
 PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus -
 XX
 PS
 XX Claim 33: Fig 96; 309pp; English.

CC Immunological diseases of the lung, and transplantation associated
 CC diseases including graft rejection and graft-versus-host-disease.
 CC AAC58397 to AAC58578 represent PCR primers and hybridisation probes used
 CC in the isolation of human PRO sequences. AAC58579 to AAC58642 and
 CC AAB33414 to AAB33477 represent human PRO polynucleotide and protein
 CC sequences given in the exemplification of the present invention.
 XX
 XX Sequence 243 AA;
 SQ
 Query Match 100.0%; Score 1325; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5, 3e-103;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPLVLLLLGLAASPPDDNKRIPSLCPGRPLPPTPGHHSQGLGRDGRDGRGAPG 60
 DB 1 MRPLVLLLLGLAASPPDDNKRIPSLCPGRPLPPTPGHHSQGLGRDGRDGRGAPG 60
 QY 61 APECKEGGRPRGLPGRGRDPRGEGAPGPTGACGCSVPPRSATSAKSESRRVPPSD 120
 DB 61 APECKEGGRPRGLPGRGRDPRGEGAPGPTGACGCSVPPRSATSAKSESRRVPPSD 120
 QY 121 APFPDRLVNEGGHTDAVYGRFTGCVPGYVYRAVATVYRASLDPLVNGESIASFPQ 180
 DB 121 APFPDRLVNEGGHTDAVYGRFTGCVPGYVYRAVATVYRASLDPLVNGESIASFPQ 180
 QY 181 FFGWPKRPASLSCGAVRLEPEDQVWVGVGDYIGIVASIKTDSFSGFLVYSDMHSPP 240
 DB 181 FFGWPKRPASLSCGAVRLEPEDQVWVGVGDYIGIVASIKTDSFSGFLVYSDMHSPP 240
 QY 241 VFA 243
 DB 241 VFA 243
 RESULT 5
 AAY71468
 ID AAY71468 standard; Protein; 243 AA.
 XX
 AC AAY71468;
 XX
 DT 08-NOV-2000 (first entry)
 XX
 DE Human PRO344 protein.
 XX
 KW PRO344; DNA40592-1242; human; ATCC No: 209492; antiproliferative;
 KW neoplastic cell growth inhibitor; cytostatic; treatment: cancer; tumour;
 KW breast; prostate; colon; lung; renal; ovarian; central nervous system;
 KW CNS; leukemia; melanoma; Expressed Sequence Tag; EST; secreted protein;
 KW extracellular domain; ECD.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..15
 FT Modified-site /label= signal_peptide
 FT /note= "N-myristoylation site"
 FT Protein 16..243
 FT /label= Mature_PRO344_protein
 FT Modified-site 68..74
 FT /note= "N-myristoylation site"
 FT Binding-site 77..80
 FT /note= "Cell attachment sequence"
 FT Modified-site 216..222
 FT /note= "N-myristoylation site"
 XX
 PN MO200032778-A2.
 XX
 PD 08-JUN-2000;
 XX
 PD 30-NOV-1999; 99MO-US28409.
 XX
 PR 01-DEC-1998; 99MO-US25108.

PA (GETH) GENENTECH INC.
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,
PI Gerritsen ME, Goddard A, Godowski P, Gurney AL, Sherwood S,
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z:
XX MPI: 2001-408281/43.
DR N-PSDB: AAS21424.
XX
XX Isolated, secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing
PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
XX lung, breast, prostate, cervical
XX
PS Claim 12: Flg 362; 813pp; English.
XX
XX AAU12172-AAU12446 represent novel human secretory and transmembrane
CC PRO polypeptides. The PRO polypeptides are useful to detect other
CC PRO polypeptides, to link bioactive molecules to cells expressing
CC PRO polypeptides, to modulate biological activities of cells expressing
CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample.
CC Some of the 275 sequences are also useful to stimulate the release of
CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
CC proliferation or differentiation of chondrocytes, the proliferation or
CC gene expression in pericyte cells, the release of proteoglycans from
CC cartilage, the proliferation of inner ear utricular supporting cells or
CC of T-lymphocytes), the release of a cytokine from peripheral blood
CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
CC to factor VIIa. The PRO polypeptides can be used in assays to identify
CC molecules involved in binding interactions. The polynucleotides encoding
CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy.
XX
SQ Sequence 243 AA:
Query Match 100.0%; Score 1325; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 5.3e-103;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPLVLLLLGLAASPPDDNKIPSLCPGHPGLPPTPGHHSOGLPGRDGRDGRGARG 60
DB 1 MRPLVLLLLGLAASPPDDNKIPSLCPGHPGLPPTPGHHSOGLPGRDGRDGRGARG 60
QY 61 AGEKGEGERPGLPGPRGDPGRGEGAGPAGTGPAGECSVPPRSASFSAKRSRVPSPD 120
DB 61 AGEKGEGERPGLPGPRGDPGRGEGAGPAGTGPAGECSVPPRSASFSAKRSRVPSPD 120
QY 121 APLPDRVLVNOGHYDAVTGKFTCOVPGVYFAVAHATYRASLQFDLVKNESIASFFQ 180
DB 121 APLPDRVLVNOGHYDAVTGKFTCOVPGVYFAVAHATYRASLQFDLVKNESIASFFQ 180
QY 181 FFGGMPKPSLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFSGFLVYSDMHSSP 240
DB 181 FFGGMPKPSLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243
RESULT 9
AAB65815
ID AAB65815 standard; Protein: 243 AA.
XX
AC AAB65815;
XX
DT 28-MAR-2001 (first entry)
XX
DE Human TANGO 253 SEQ ID NO: 3.

XX
KW Human: mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
KW INTERCEPT 258; coronary disorder; olfactory disorder;
KW neurological disorder; pulmonary disorder; immunological disorder;
KW developmental disorder; kidney disorder.
XX
OS Homo sapiens.
PN WO2000/78808-A1.
XX
XX 28-DEC-2000.
XX
XX 19-JUN-2000; 2000MO-US16883.
XX
XX 18-JUN-1999; 99US-0336536.
XX
XX (MILL-) MILLENNIUM PHARM INC.
PI Leiby KR, McKay C, Bossone S;
DR MPI: 2001-050109/06.
XX
XX New nucleic acids for treating diseases and disorders, e.g.
PT atherosclerosis, infection, autoimmune diseases, obesity, ear
PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
PT sclerosis and asthma
XX
PS Claim 9; Page 211-212; 332pp; English.
XX
XX The present invention provides the protein and coding sequences of the
CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
CC coronary, pulmonary, olfactory, immunological, neurological,
CC developmental and kidney disorders.
XX
SQ Sequence 243 AA:
Query Match 100.0%; Score 1325; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 5.3e-103;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPLVLLLLGLAASPPDDNKIPSLCPGHPGLPPTPGHHSOGLPGRDGRDGRGARG 60
DB 1 MRPLVLLLLGLAASPPDDNKIPSLCPGHPGLPPTPGHHSOGLPGRDGRDGRGARG 60
QY 61 AGEKGEGERPGLPGPRGDPGRGEGAGPAGTGPAGECSVPPRSASFSAKRSRVPSPD 120
DB 61 AGEKGEGERPGLPGPRGDPGRGEGAGPAGTGPAGECSVPPRSASFSAKRSRVPSPD 120
QY 121 APLPDRVLVNOGHYDAVTGKFTCOVPGVYFAVAHATYRASLQFDLVKNESIASFFQ 180
DB 121 APLPDRVLVNOGHYDAVTGKFTCOVPGVYFAVAHATYRASLQFDLVKNESIASFFQ 180
QY 181 FFGGMPKPSLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFSGFLVYSDMHSSP 240
DB 181 FFGGMPKPSLSGAMVRLPEPDQVWVGVDYIGIVASIKTDSFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243
RESULT 10
AAB49593
ID AAB49593 standard; Protein: 243 AA.
XX
AC AAB49593;
XX
DT 13-MAR-2001 (first entry)
XX
DE Human adipocyte complement related protein homolog zs1g39.
XX
KW Human; zacrps; gene therapy; complement inhibition; C1q domain;

KW adipocyte complement related protein homolog;
KW inflammation; hormone secretion; inositol phosphate; arachidonate;
KW phospholipase C activation; gastric emptying; neutrophil activation;
KW superoxide anion production; antimicrobial; acute vascular injury;
KW wound healing; zslg39.
XX
XX Homo sapiens.
XX OS
XX PN WO200073444-A1.
XX PD 07-DEC-2000.
XX PF 18-MAY-2000; 2000WO-US13608.
XX PR 27-MAY-1999; 99US-0321372.
XX PA (ZTMO) ZYMOGENETICS INC.
XX PI Pliddington CS, Sheppard PO;
XX DR WPI: 2001-061531/07.
XX PT Novel adipocyte complement related protein homolog, ZACRP5, useful for
XX PT diagnosing and treating inflammation, vascular injury microbial
XX PT infections, and in wound healing
XX PS
XX PS Disclosure: Fig 1; 121pp; English.
XX CC The present invention relates to human adipocyte complement related
XX CC protein homolog, zacrp5 protein and coding sequence (see AAB49599 and
XX CC AAC90045). ZACRP5 has a carboxyl-terminal C1q domain. The zacrp5 gene is
XX CC located on human chromosome 16. zacrp5 gene and protein are useful for
XX CC diagnosing and treating inflammations, for determining arterial
XX CC remodeling, for modulating calcium ion concentration, hormone
XX CC secretion, DNA synthesis or cell growth, inositol phosphate turnover,
XX CC arachidonate release, phospholipase C activation, gastric emptying, human
XX CC neutrophil activation or ADCC capability and superoxide anion production.
XX CC zacrp5 gene and protein are also useful as antimicrobial applications,
XX CC preferably against bacteria and virus, for complement inhibition, for
XX CC treating acute vascular injury, and for wound healing. The present
XX CC sequence is human adipocyte complement related protein homolog, zslg39
XX CC protein. This protein was used in a sequence homology alignment with
XX CC zacrp5 protein.
XX
XX Sequence 243 AA:
SQ
Query Match 100.0%; Score 1325; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 5.3e-103;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
YY 1 MRPLVLLLLGLAAGSPRLDNNKIPSLCPGHPGLPTGPHHSGGLGRDGRDGAAPG 60
DB 1 MRPLVLLLLGLAAGSPRLDNNKIPSLCPGHPGLPTGPHHSGGLGRDGRDGAAPG 60
YY 1 MRPLVLLLLGLAAGSPRLDNNKIPSLCPGHPGLPTGPHHSGGLGRDGRDGAAPG 60
DB 1 MRPLVLLLLGLAAGSPRLDNNKIPSLCPGHPGLPTGPHHSGGLGRDGRDGAAPG 60
YY 61 APGKGGGGRPGILPGPRGDPGRGEAGPAPPTGAGCSVPPRSASFSAKSESSEVPPSPD 120
DB 61 APGKGGGGRPGILPGPRGDPGRGEAGPAPPTGAGCSVPPRSASFSAKSESSEVPPSPD 120
YY 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGYVYFAVHATVYRASLQDFLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGYVYFAVHATVYRASLQDFLVKNGESIASFFQ 180
YY 181 FFGGMPKRPASLSGAMVRLBEDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
DB 181 FFGGMPKRPASLSGAMVRLBEDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
YY 241 VFA 243
DB 241 VFA 243
RESULT 11
AAB49599

ID AAB49599 standard; Protein: 243 AA.
XX
XX AC AAB49599;
XX XX
XX DT 13-MAR-2001 (first entry)
XX DE
XX XX Human adipocyte complement related protein homolog zslg39.
XX KW Human; zacrp6; gene therapy; complement inhibition; C1q domain;
KW KW adipocyte complement related protein homolog;
KW inflammation; hormone secretion; inositol phosphate; arachidonate;
KW KW phospholipase C activation; gastric emptying; neutrophil activation;
KW KW superoxide anion production; antimicrobial; acute vascular injury;
KW KW wound healing; zslg39.
XX
XX OS Homo sapiens.
XX XX
XX PN WO200073446-A2.
XX PD 07-DEC-2000.
XX PF 22-MAY-2000; 2000WO-US14024.
XX PR 27-MAY-1999; 99US-0321262.
XX PA (ZTMO) ZYMOGENETICS INC.
XX PI Pliddington CS, Sheppard PO;
XX DR WPI: 2001-061532/07.
XX PT Novel adipocyte complement related protein homolog, ZACRP6, useful as
XX PT modulators of neurotransmission and for treating disseminated
XX PT intravascular coagulation, arteriosclerosis and acute vascular injury
XX PS
XX PS Disclosure: Fig 1; 119pp; English.
XX CC The present invention relates to human adipocyte complement related
XX CC protein homolog, ZACRP6 protein and coding sequence (see AAB49596 and
XX CC AAC90051). ZACRP6 has a carboxyl-terminal C1q domain. The zacrp6 gene is
XX CC located on human chromosome 21q. zacrp6 gene and protein are useful for
XX CC diagnosing and treating inflammations, for determining arterial
XX CC remodeling, for modulating calcium ion concentration, hormone
XX CC secretion, DNA synthesis or cell growth, inositol phosphate turnover,
XX CC arachidonate release, phospholipase C activation, gastric emptying, human
XX CC neutrophil activation or ADCC capability and superoxide anion production.
XX CC zacrp6 gene and protein are also useful as antimicrobial applications,
XX CC preferably against bacteria and virus, for complement inhibition, for
XX CC treating acute vascular injury, disseminated intravascular coagulation,
XX CC arteriosclerosis and for wound healing. The present sequence is human
XX CC adipocyte complement related protein homolog zslg39. This protein was
XX CC used in a sequence homology comparison with ZACRP6 protein.
XX
XX Sequence 243 AA:
SQ
Query Match 100.0%; Score 1325; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 5.3e-103;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
YY 1 MRPLVLLLLGLAAGSPRLDNNKIPSLCPGHPGLPTGPHHSGGLGRDGRDGAAPG 60
DB 1 MRPLVLLLLGLAAGSPRLDNNKIPSLCPGHPGLPTGPHHSGGLGRDGRDGAAPG 60
YY 61 APGKGGGGRPGILPGPRGDPGRGEAGPAPPTGAGCSVPPRSASFSAKSESSEVPPSPD 120
DB 61 APGKGGGGRPGILPGPRGDPGRGEAGPAPPTGAGCSVPPRSASFSAKSESSEVPPSPD 120
YY 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGYVYFAVHATVYRASLQDFLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHDAVTGKFTCOVPGYVYFAVHATVYRASLQDFLVKNGESIASFFQ 180
YY 181 FFGGMPKRPASLSGAMVRLBEDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240
DB 181 FFGGMPKRPASLSGAMVRLBEDQVWVQVGVGYIGIYASIKTDSFGFLVYSDMHSSP 240

DB 181 FFGGMPKPAASLSGAMVRLPEPDQVWVGVDYIGIYASIKTSTFSGELVYSOMHSSP 240
|||
OY 241 VFA 243
|||
DB 241 VFA 243

RESULT 12

ID AAB65891 standard; Protein: 243 AA.

AC AAB65891;

DT 28-MAR-2001 (first entry)

DE Human secreted protein related protein SEQ ID NO: 108.

KW Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;

KW INTERCEPT 258; coronary disorder; olfactory disorder;

KW neurological disorder; pulmonary disorder; immunological disorder;

KW developmental disorder; kidney disorder.

OS Homo sapiens.

PN WO200078808-A1.

PD 28-DEC-2000.

PE 19-JUN-2000; 2000WO-US16883.

PR 18-JUN-1999; 99US-0336536.

PA (MILL-) MILLENNIUM PHARM INC.

PI Leiby KR, McKay C, Bossone S;

DR WPI: 2001-050109/06.

PT New nucleic acids for treating diseases and disorders, e.g.

PT atherosclerosis, infection, autoimmune diseases, obesity, ear

PT disorders, brain disorders, tumors, diabetes, arthritis, multiple

PT sclerosis and asthma -

PS Disclosure: Page 274; 332pp; English.

CC The present invention provides the protein and coding sequences of the

CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,

CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of

CC coronary, pulmonary, olfactory, immunological, neurological,

CC developmental and kidney disorders.

CC

CC

CC

CC

CC

CC

CC

CC

OY 241 VFA 243
|||
DB 241 VFA 243

RESULT 13

ID AAB65888 standard; Protein: 243 AA.

AC AAB65888;

DT 28-MAR-2001 (first entry)

DE Human secreted protein related protein SEQ ID NO: 102.

KW Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;

KW INTERCEPT 258; coronary disorder; olfactory disorder;

KW neurological disorder; pulmonary disorder; immunological disorder;

KW developmental disorder; kidney disorder.

OS Homo sapiens.

PN WO200078808-A1.

PD 28-DEC-2000.

PE 19-JUN-2000; 2000WO-US16883.

PR 18-JUN-1999; 99US-0336536.

PA (MILL-) MILLENNIUM PHARM INC.

PI Leiby KR, McKay C, Bossone S;

DR WPI: 2001-050109/06.

PT New nucleic acids for treating diseases and disorders, e.g.

PT atherosclerosis, infection, autoimmune diseases, obesity, ear

PT disorders, brain disorders, tumors, diabetes, arthritis, multiple

PT sclerosis and asthma -

PS Disclosure: Page 270-271; 332pp; English.

CC The present invention provides the protein and coding sequences of the

CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,

CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of

CC coronary, pulmonary, olfactory, immunological, neurological,

CC developmental and kidney disorders.

CC

CC

CC

CC

CC

CC

CC

CC

Db 241 VFA 243

RESULT 14
AAB65889
ID AAB65889 standard; protein; 243 AA

AC	AAB65889;
XX	
DT	28-MAR-2001 (first entry)

Human secreted protein related protein SEQ ID NO: 104

KM Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
 INTERCEPT 258; coronary disorder; olfactory disorder;
 KM neurological disorder; pulmonary disorder; immunological disorder;
 KM developmental disorder; kidney disorder.

Homo sapiens.

AA
PN
WO2000078808-A1.

PD 28-DEC-2000

PF 19-JUN-2000; 2000WO-US16883.
XY

18-JUN-1999; 99US-0336536.

PA (MILL-) MILLENNIUM PHARM INC.
XX

PI Leiby KR, McKay C, Bossone S;

DR WPI; 2001-050109/06.
XX

PT New nucleic acids for treating diseases and disorders, e.g.
PT atherosclerosis, infection, autoimmune diseases, obesity, ear
PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
PT sclerosis and asthma -

AA Disclosure; page 271-272; 332pp; English.
PS

XX The present invention provides the protein and coding sequences of the
CC human and murine secreted or transmembrane proteins TANGO 233, TANGO 257
CC TANGO 261 and INTERCEPT 258. These are useful in the treatment of
CC coronary, pulmonary, olfactory, immunological, neurological,
CC developmental and kidney disorders.

SQ Sequence 243 AA;

```
Query Match      99.7%  Score 1321;  DB 22;  length 243;
Best Local Similarity 99.6%  Pred. No. 1.1e-102;
Matches 242;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0
```

[illegible]

RESULT 15
AAB65890
ID AAB65890 standard; Protein: 243 AA.
XY

AC	AAB65890;
XX	
DT	28-MAR-2001 (first entry)
EV	

DE	Human secreted protein related	SEQ ID NO: 106
XX		

KM Human; mouse; secreted protein; TANGO053; TANGO 257; TANGO 281.
 KM INTERCEPT 258; coronary disorder; olfactory disorder;
 KM neurological disorder; pulmonary disorder; immunological disorder;
 KM developmental disorder; kidney disorder.

OS Homo sapiens.
XX

PN WO200078808-A1.

PD 28-DEC-2000
YY

PF 19-JUN-2000; 2000WO-US16883.
XX

PR 18-JUN-1999; 99US-0336536.

PA (MILL-) MILLENNIUM PHARM INC.
XX

Leiby KR, McKay C, Bossone S,

DR WPI; 2001-050109/06.
XX

PT New nucleic acids for treating diseases and disorders, e.g.
PT atherosclerosis, infection, autoimmune diseases, obesity, ear
PT disorders, brain disorders, tumors, diabetes, arthritis, multiple
PT sclerosis and asthma -

AA Disclosure; Page 272-273; 332pp; English.

XX The present invention provides the protein and coding sequences of the
CC human and murine secreted or transmembrane proteins TANGO 253, TANGO 257
CC TANGO 281 and INTERCEPT 258. These are useful in the treatment of
CC coronary, pulmonary, olfactory, immunological, neurological,
CC developmental and kidney disorders.

50 Sequence 243 AA;

Query Match	99.7%	Score 1321;	DB 22;	Length 243;
Best Local Similarity	99.6%	Pred. No. 1,1e-102;		
Matches 242;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0

QY	1	MRPLLVLLLLGLANGSPRLDDNKTPSLCPGNRLFGTPGHHNGSQLPCGRDGRDGRGARG	60
	1	MRPLLVLLLLGLANGSPRLDDNKTPSLCPGNRLFGTPGHHNGSQLPCGRDGRDGRGARG	60
Db	1	MRPLLVLLLLGLANGSPRLDDNKTPSLCPGNRLFGTPGHHNGSQLPCGRDGRDGRGARG	60
QY	61	APGKEGEGRGRLGPRPCDPPRGACGAPRGAPGECSPVPRSAFSAKRSRSRVPRPD	120
	61	APGKEGEGRGRLGPRPCDPPRGACGAPRGAPGECSPVPRSAFSAKRSRSRVPRPD	120
Db	61	APGKEGEGRGRLGPRPCDPPRGACGAPRGAPGECSPVPRSAFSAKRSRSRVPRPD	120
QY	121	APLPRDRLVNEGCHDAVTGSKFTQVRGVYTFVAHATVYRASLQPLDKKCESTASFQ	180
	121	APLPRDRLVNEGCHDAVTGSKFTQVRGVYTFVAHATVYRASLQPLDKKCESTASFQ	180
Db	121	APLPRDRLVNEGCHDAVTGSKFTQVRGVYTFVAHATVYRASLQPLDKKCESTASFQ	180
QY	181	FFGGMPPRPAISLGGAMVLEPEDDVWVGVGADYIGIYASIKTDSFGFLYSDMHSSP	240
	181	FFGGMPPRPAISLGGAMVLEPEDDVWVGVGADYIGIYASIKTDSFGFLYSDMHSSP	240
Db	181	FFGGMPPRPAISLGGAMVLEPEDDVWVGVGADYIGIYASIKTDSFGFLYSDMHSSP	240
QY	241	VFA 243	
	241	VFA 243	
Db	241	VFA 243	

Search completed: June 18, 2003, 14:51:05
Job time : 87 secs

```

Db      121  TPLEDFRVLLNQGHEPDTTGKFTGQGVGVYEAFAVHATVYRASLQEDLYKKNQSIASFQ 180
OY      181  FFGGMPKRAASLGGCAWVRLERPDQVWVGVDYIGTASITDSTFSGFLVSDMHSSP 240
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      181  YFGGMPKRAASLGGCAWVRLERPDQVWVGVDYIGTASITDSTFSGFLVSDMHSSP 240
OY      241  VFA 243
        : : :
Db      241  VFA 243

RESULT 2
ID      095M04      PRELIMINARY:      PRT:      240 AA.
AC      095M04:
DT      01-DEC-2001 (TREMBLrel. 19, Created)
DT      01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT      01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE      Adipose tissue-specific protein adipo Q.
OS      Bos taurus (Bovine).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC      Bovidae; Bovinae; Bos.
OX      NCBI_TaxID=9913;
RN      [1]
RP      SEQUENCE FROM N.A.
RX      MEDLINE-21369933; PubMed-11382781;
RA      Sato C., Yasukawa Z., Honda N., Matsuda T., Kitajima K.;
RT      Identification and Adipocyte Differentiation-dependent Expression of
RT      the Unique Distal Acid Residue in an Adipose Tissue-specific
RT      Glycoprotein, Adipo Q.*;
RJ      J. Biol. Chem. 276:28649-28656(2001).
DR      EMBL; AF269230; AAK58902.1; -.
DR      InterPro: IPR001073; ClQ.
DR      InterPro: IPR000087; Collagen.
DR      Pfam: PF00386; ClQ; 1.
DR      Pfam: PF01391; Collagen; 1.
DR      Prodom: PD000007; Collagen; 1.
DR      PROSITE; PS01113; ClQ; UNKNOW_1.
SQ      SEQUENCE 240 AA; 26091 MW; C623BA803B9A668 CRC64;

Query Match      32.1%; Score 425.5; DB 6; Length 240;
Best Local Similarity 41.5%; Pred. No. 7; Le-29;
Matches 100; Conservative 35; Mismatches 81; Indels 25; Gaps 10.

OY      6  VLLLLGLAA-GSPRLDNNKIP-SLCPG-HPLPCTPRGHHSGQLPGRDGRDGPAP 62
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      7  LLLLLPRLSHQEDNMEDRPRLPKGACAGMAGIPLRHNGI---PGRGRD-----GTP 57
OY      63  GEKEGGRPLGPRGPD-----PGRKEGACRACFTGPAEGECVPRSAFSAKRS 113
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      58  GEKEKEKDAGILGKPGEGTGDVGMTGAEGRPCFPPTGPKRKGPEGAAYYRSASFV-GLET 116
OY      114  RVPSPAPRLPFDVLVNEQGHYAATGKFTCOYRGVYVFAVHATVYRASLQEDLYKKNQ 173
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      117  RVYVP-NVPIETFTIFYNQNNHNGTGKFTCNIRGLVYSYHITVWKKDVKSLFKDK 175
OY      174  SIASFQFPGGMPKRAASLGGCAWVRLERPDQVWVGVD-YIGTASITDSTFSGFLV 232
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      176  AVLETTYOQDE-KVVDQASGSVLLHLEVGQVWVLQVYEGENHNGVYADNVNDSTFTGFL 234
OY      233  Y 233
        :
Db      235  Y 235

RESULT 3
ID      095J07      PRELIMINARY:      PRT:      243 AA.
AC      095J07:
DT      01-DEC-2001 (TREMBLrel. 19, Created)
DT      01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT      01-JUN-2002 (TREMBLrel. 21, Last annotation update)

```

DE	Adiponectin.
GN	APM1.
OS	Macaqa mulatta (Rhesus macaque).
OC	Eukaryota; Metazoa; Chordata; Cranialata; Vertebrate; Euteleostomi;
OC	Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC	Cercopithecinae; Macaca.
OX	NCBI_TaxID=9544;
OX	[1]
RN	SEQUENCE FROM N.A.
RP	TISSUE=ADIPOSE TISSUE;
RC	MEDLINE=21232234; PubMed=11334417;
RA	Hochta K., Funahashi T., Bodin N.L., Ortmeier H.K., Arla Y.,
RA	Hansen B.C., Matsuzawa Y.;
RT	"Circulating concentrations of the adipocyte protein adiponectin are
RT	decreased in parallel with reduced insulin sensitivity during the
RT	progression to type 2 diabetes in rhesus monkeys.";
RL	Diabetes 50:1126-1133(2001).
DR	EMBL; AF040407; AAK92202.1; -
DR	InterPro; IPR001073; C1q.
DR	InterPro; IPR000087; Collagen.
DR	Pfam; PF00386; C1q; 1.
DR	Pfam; PF01391; Collagen; 1.
DR	Prodom; PD000007; Collagen; 1.
DR	PROSITE; PS01113; C1Q; UNKNOWN_1.
SO	SEQUENCE 243 AA; 26264 MW; 49A45DAF2B4613FD CRC64;
Query Match	31.8%; Score 422; DB 6; Length 243;
Best Local Similarity	42.3%; Pred. No. 1.4e-28;
Matches 104; Conservative 28; Mismatches 88; Indels 26; Gaps 8	
OY	6 VLLLLGLAAGSPPLDNDKTPSLCPGHPG-----LPGRPHGHSGCLPGRGDGGDGAPG 60
Db	6 VLLLLLPHSIGDDPTTQTGGPVLPLPKGACGTGMWAGIPGHGHGVGRDGRD-----G 59
OY	61 APGEKGEGGPGGLPGPRGD-----PGRGCEAGPCTPGAGECSVPBSAFSAKRS 111
Db	60 TPBEKEGKDPGLIGKSDTGGETGYTAGABGRGFPGIOGRKGEGBEAYVRRSAFSV-GL 118
OY	112 ESFRVPPPSAPPLEFDRLVNEQGHHYDAVTGKFQCQPVGVYFAVAHATVTRASLOFLVKN 171
Db	119 ELTVFPVP-NMPHFETKIIFYNQONHDGDSGTGFHCINIPLYFAFHITVMKKDVKSLEFK 177
OY	172 GES-IASFPOFGMGWKPRASLSCGAMVLEPEDDVMVOV-CVDGYIIVASIKTDSFTSG 229
Db	178 DKMLLETYYOQYDENNVDA--SGSVLLHLLEVGDVMDLVYGEGERNLVADNDNSTFTG 235
OY	230 FLVYS D 235
Db	236 FLYHYD 241
RESULT 4	
ID	09N178 PRELIMINARY; PRT; 675 AA.
AC	09N178;
DT	01-OCT-2000 (Tremblrel. 15, Created)
DT	01-OCT-2000 (Tremblrel. 15, Last sequence update)
DE	01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE	Type X collagen.
GN	COL10A1.
OS	Sus scrofa (Pig).
OC	Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
OC	Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX	NCBI_TaxID=9823;
OX	[1]
RN	SEQUENCE FROM N.A.
RA	MEDLINE=21015405; PubMed=11130976;
RA	Nielsen V.H., Bendixen C., Ambjerg J., Sorensen C.M., Jensen H.E.,
RA	Shukri N.M., Thomsen B.;
RT	"Abnormal growth plate function in pigs carrying a dominant mutation
RT	in type X collagen.";
RL	Mamm. Genome 11:1087-1092(2000).
RL	EMBL; AF222861; AAF37271.1; -

DR InterPro: IPR001073; Clq.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; Clq; 1.
 DR PRINTS: PR00007; COLLAGEN. 8.
 DR PRODOM: PD000007; COLLAGEN; 2.
 DR SMART: SM00110; Clq; 1.
 DR PROSITE: PS01113; Clq; 1.
 DR Collagen.
 RN
 SQ SEQUENCE 675 AA: 65447 MW: 26397B10310383F9 CRC64;

Query Match 31.4%; Score 415.5; DB 6; Length 675;
 Best Local Similarity 36.1%; Pred. No. 1.7e-27;
 Matches 99; Conservative 34; Mismatches 82; Indels 59; Gaps 7;

OY 15 GSPFLDDKIRSLCPHGLPFTGHHGSGCLPGRDGRDGAAPAGEKEGGRGLP 74
 DB 402 GNPGLPGPKDPIGIGPGPLPGVGPAGAKGVPCHNGEAGPRGAPIGTRGPIGPPGIP 461
 OY 75 -----GPRGDPGRGEA-----GPRGTPAGECS 99
 DB 462 GFPGSKDPPGPPGPGACIATKGLNGPTGPPGPKHAGEPGLPGRPPGPGQ-A 520
 OY 100 VPP-----RSAPSAKRSRSP-----PPSDAPLPFDRLVNEGCHYDAV 139
 DB 521 VPPEGFYKEGORAFVSNAGVTGMPVSATVILSKATPAIGAPIPFKILYNGQATDPK 580
 OY 140 TGKTCQCVGVYVAVAVATVYRASLQDLYKNGESIA-SFFQFGGMPKPSLSGAMVR 198
 DB 581 TGITGIPITGYFYFHYHVKHGTAMVGLYKNGTPVMTYDEVYKGYLDA--SGSAILD 638
 OY 199 LEPEDQVWVGVDYGIYATKIDSTFSGFLV 232
 DB 639 LTNDQVWGLPNNAGSLTSEYVHSSFGFLV 672

RESULT 5

OY2IK4 PRELIMINARY; PRT: 295 AA.
 AC 0921K4
 DT 01-MAY-1999 (TREMELREL. 10, Created)
 DT 01-MAY-1999 (TREMELREL. 10, Last sequence update)
 DT 01-JUN-2002 (TREMELREL. 21, Last annotation update)
 DE Collagen alpha 1 type X (Fragment).
 GN COL10A1.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN-SPRAGUE-DAWLEY;
 RX MEDLINE=20310874; PubMed=10853827;
 RA Marke S.A., Lundmark C., Christersson C., Murtz T., Odgren P.R.,
 RA Selfert M.F., Mackay C.A., Mason-Savas A., Popoff S.E.,
 RA Endochondral bone formation in toothless (osteopetrotic) rats:
 RT failures of chondrocyte patterning and type X collagen expression.";
 RL Int. J. Dev. Biol. 44:309-316(2000).
 DR EMBL: AJ131848; CA10518.1; -
 DR InterPro: IPR001073; Clq.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; Clq; 1.
 DR PRINTS: PR00007; COLLAGEN; 3.
 DR SMART: SM00110; Clq; 1.
 DR PROSITE: PS01113; Clq; 1.
 DR NON_TER
 SQ SEQUENCE 295 AA: 30012 MW: FFA3B1548028813E CRC64;

Query Match 30.3%; Score 402; DB 11; Length 295;
 Best Local Similarity 36.7%; Pred. No. 9.3e-27;
 Matches 94; Conservative 31; Mismatches 79; Indels 52; Gaps 7;

OY 25 PSLCPGH-----PGLPFGHHGSGCLPGRDGRDGAAPAGE-----KGE 67
 DB 41 PKGVGHNGEAGPGEGICITGTRGPIGPPGSKGPPGAPGAPAGIYTKGLNCP 100
 OY 68 GGRGLGPR-----GDPPKREAGPACPTGAGCSVP----- 101
 DB 101 AGPPGRGPPGHHGEPDLPDPGPPGPPSOAVIPDGFTKSGQRPLSGMPLVANG 160
 OY 102 -----PRSAFSAKRSRSP-----PPSDAPLPFDRLVNEGCHYDAVTKTCQVPGYVAVNA 157
 DB 161 VTGMPVSATVILSKAT--PAGCAPLPEDILYNRQHTDPRSGITCKIPGIYFSYHI 218
 OY 158 TVYRASLQEDLYKNG--ESIASFFQFGGMPKPSLSGAMVRLPEPDQVWVGVDYTG 216
 DB 219 HVKGTWVWGLYKNGTPMTYDEVYKGYLDA--SGSAILMELTNDQVWGLPNNAGSNG 276
 OY 217 IVASITDSTFSGFLV 232
 DB 277 LYSSEYVHSSFGFLV 292

RESULT 6

OY2BU4 PRELIMINARY; PRT: 294 AA.
 AC 09D8U4
 DT 01-JUN-2001 (TREMELREL. 17, Created)
 DT 01-JUN-2001 (TREMELREL. 17, Last sequence update)
 DT 01-JUN-2001 (TREMELREL. 17, Last annotation update)
 DE 1810033K05RIK protein.
 GN 1810033K05RIK.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN-C57BL/6J; TISSUE-PANCREAS;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawal J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Atakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,
 RA Kuenl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 RA Schriml L.M., Staudt F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Custineich S., Hill D., Hofmann M., Hume D.A., Kamliya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Momberts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schenbach C., Seva T., Shibata Y., Storch K.F.,
 RA Suzuki H., Toyokawa K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wyszynski A., Yoshida K., Hasegawa Y., Kawaji H., Kohlsuki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection.";
 RL Nature 409:685-690(2001).
 DR EMBL: AK007683; BAB25187.1; -
 DR MGD: MGI:1916433; 1810033K05RIK.
 DR InterPro: IPR001073; Clq.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; Clq; 1.
 DR PRINTS: PR00007; COLLAGEN; 2.
 DR SMART: SM00110; Clq; 1.
 DR PROSITE: PS01113; Clq; 1.
 DR NON_TER
 SQ SEQUENCE 294 AA: 30865 MW: 6D3905AE7C19E6FA CRC64;

Query Match 29.8%; Score 395; DB 11; Length 294;
 Best Local Similarity 35.9%; Pred. No. 3.7e-26;
 Matches 94; Conservative 31; Mismatches 93; Indels 44; Gaps 6;

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OY 3 PLLVLLLLGLAGSPRLDNKIPSLCPHGLPTGPHHNGSGLGRDGRDGPAP 62
DB 41 POLVCLSPG-----POGPPGPPGAPSGSVYGRMGFPKGDGDDGDRGDS 87
OY 63 GEGEGGGRP---GLPGRGDPGRGAPGAPG---TGPADECSVPRSAFSAKRESRKP 116
DB 88 GEGGPPRGKNGKNGKOPKAKAIGRAGRGKGVSGPGKKTGTGKKOPKKEPGRP 147
OY 117 PPSDA-----PLPDRVLNVEGCHYDAYTGKTCOVPGVYFA 154
DB 148 GPCSGSSHAKSAFSAVATKSYPRERLPKFKDKILNVEGCHYDAYTGKTCOVPGVYFA 207
OY 155 VVATYRASLOPDLVKNNGESIAFFQFGGPKRPSLSGAVNLEPEDQVWVGVGDY 214
DB 208 VDTLANKKHLAIGLVHNGOYRTRTREDANTGNHDA--SGSTILALKEDEWLOIFYSQ 265
OY 215 IGI-YASIKTSTFSGFLVYSD 235
DB 266 NGLFYDPYWTDSLFWGFLIYAD 287

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RESULT 7
OY 095J95 PRELIMINARY; PRT: 194 AA.
AC 095J95;
DT 01-DEC-2001 (TREMblrel, 19, Created)
DT 01-DEC-2001 (TREMblrel, 19, Last sequence update)
DT 01-JUN-2001 (TREMblrel, 21, Last annotation update)
DE Adiponectin (Fragment).
GN APM1.
OS Canis familiaris (Dog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
OX NCBI_TaxID=9615;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=ADIPOSE TISSUE;
RA Kabir M., Anantharayan S., Ionut V., Kim S.P., Van Citters G.W.,
RA Dea M.K., Bergman R.N.;
RL "Regulation of Adiponectin gene expression in the fat-fed dog.";
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF417206; AL09702.1;
DR InterPro; IPR001073; Clq.
DR InterPro; IPR000087; Collagen.
DR Pfam; PF00386; Clq; 1.
DR Pfam; PF01391; Collagen; 1.
DR ProDom; PD000007; Collagen; 1.
DR PROSITE; PS01113; Clq; UNKNOWN_1.
FT NON_TER 1
FT NON_TER 194
SQ SEQUENCE 194 AA; 20890 MW; 3AA3D947D187AF9A CRC64;

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Query Match 28.2%; Score 373.5; DB 6; Length 194;
Best Local Similarity 42.3%; Pred. No. 1.6e-24;
Matches 90; Conservative 22; Mismatches 66; Indels 35; Gaps 9;

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OY 8 LLLGLAGSPRLDNKIPSLCPG-HRCLPTGPHHNGSGLGRDGRDGPAPGAPGEGK 66
DB 4 VLLPLRPGA-----CPGMMAGIRGHPGNGT---PGRGRD-----GTPEKG 43
OY 67 EGGPRGLPGRGD-----PGRGEGAPGPTGAGCSVPRPSAFSAKSESVP 117
DB 44 EKGPRGLVGRKGTGCTGVTGVEGRPRGPTGKRGKSGESATVHNSAFV-GLSEHIV 102
OY 118 PPSDAFLPDRVLNVEGCHYDAYTGKTCOVPGVYFAVHATVYRASLOPDLVKNNGESIAS 177
DB 103 P-VNPIRFTIFYNLQNHVDGTGCKFKCNIRGLYFESYHITVYLKDYKAVLYKKDK--AM 159
OY 178 FPGFPGMPPRA-SLSGAVNLEPEDQVWV 209
DB 160 LFTYDYOENKNQDASGVLLHLEVGQWVLY 192

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RESULT 8
OY 09D2V4 PRELIMINARY; PRT: 744 AA.
AC 09D2V4;
DT 01-JUN-2001 (TREMblrel, 17, Created)
DT 01-JUN-2001 (TREMblrel, 17, Last sequence update)
DT 01-JUN-2001 (TREMblrel, 17, Last annotation update)
DE Procollagen, type VIII, alpha 1.
GN COL8A1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=KIDNEY;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamaneke I.,
RA Saito T., Okazaki Y., Gotohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batilov S., Casavant T.,
RA Flieschmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nakai I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staibell F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carlini P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wyszewski-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsaki S.,
RA Hayashizaki Y.;
RN [1]
RP "Functional annotation of a full-length mouse cDNA collection.";
RT Nature 409:685-690(2001).
RL EMBL; AK018742; BAB31383.1;
DR MGD; MGI:88463; Col8a1.
DR InterPro; IPR001073; Clq.
DR InterPro; IPR000087; Collagen.
DR Pfam; PF00386; Clq; 1.
DR Pfam; PF01391; Collagen; 7.
DR PRINTS; PR00007; COMPLEMENTC1Q.
DR SMART; SM00110; Clq; 1.
DR PROSITE; PS01113; Clq; 1.
SQ SEQUENCE 744 AA; 73581 MW; C659BDCBCB06EB9C CRC64;

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Query Match 28.0%; Score 370.5; DB 11; Length 744;
Best Local Similarity 34.6%; Pred. No. 1.4e-23;
Matches 93; Conservative 32; Mismatches 83; Indels 61; Gaps 7;

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OY 24 IPRSLC--PGRHGLPTGPHHNGSGLGRDGRDGPAPGAPGEGKSGRPLP----- 74
DB 476 VPLDLPRKGPBGRIPG0GLGPRGIRGIVGSPGIPRPGIPRKGGRPLPGRGPRGVK 535
OY 75 -----GPRKDPGRGEGAPGPTG-----AGCSV 100
DB 536 PGVAGLHPRPKRGALGPRGQRLPRPRPRGPRGPRGPRGPRGPRGPRGPRGPRGPRG 595
OY 101 PPSAFAKRA-----SESRVP-PPSDAPFLPDRVLNVEGCHYDAYTGKTC 145
DB 596 KPRHAYAGKRGKKGKGRPAVEPRFAFTALVLPFPVCAVFKDLTKYGRNVPQGCIFTC 655
OY 146 OYGVGVYFAVHATVYRASLOPDLVKNNGESIA-SFQFGGPKRPSLSGAVNLEPEDQ 204
DB 656 EYRPGVYFAVHATVYRASLOPDLVKNNGESIA-SFQFGGPKRPSLSGAVNLEPEDQ 204
OY 205 VVWQVGVGDYIGIYASIKTSTFSGFLV 233
DB 714 VFLQMPSEDAAGLYAGQVYHVSFSGLY 742

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RESULT 9
ID 0921S8 PRELIMINARY: PRT: 744 AA.
AC 0921S8;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Procollagen, type VIII, alpha 1.
GN COL8A1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC011061; AAH11061.1;
DR MGI; MGI:88463; Col8a1.
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR Pfam: PF01391; Collagen; 7.
DR PROSITE: PS01113; C1Q; UNKNOMN_1.
KM Collagen.
SO SEQUENCE 744 AA; 73621 MW; BF7A7FD79D8463AA CRC64;

Query Match
Best Local Similarity 28.0%; Score 370.5; DB 11; Length 744;
Matches 93; Conservative 32; Mismatches 83; Indels 61; Gaps 7;

ID 0921S8 PRELIMINARY: PRT: 744 AA.
AC 0921S8;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Hypothetical 73.4 kDa protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC013581; AAH13581.1;
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
SO SEQUENCE 744 AA; 73621 MW; BF7A7FD79D8463AA CRC64;

ID 096D07 PRELIMINARY: PRT: 744 AA.
AC 096D07;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Hypothetical 73.4 kDa protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC013581; AAH13581.1;
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
SO SEQUENCE 744 AA; 73621 MW; BF7A7FD79D8463AA CRC64;

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DR Pfam: PF01391; Collagen; 7.
DR Prodom: PD000007; Collagen; 2.
DR PROSITE: PS01113; C1Q; UNKNOMN_1.
DR Collagen; Hypothetical protein.
SO SEQUENCE 744 AA; 73364 MW; 2BC1B0955DEZC9A3 CRC64;

Query Match
Best Local Similarity 27.8%; Score 368; DB 4; Length 744;
Matches 90; Conservative 34; Mismatches 84; Indels 62; Gaps 6;

ID 0921S8 PRELIMINARY: PRT: 744 AA.
AC 0921S8;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Procollagen, type VIII, alpha 1.
GN COL8A1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC011061; AAH11061.1;
DR MGI; MGI:88463; Col8a1.
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
DR PROSITE: PS01113; C1Q; UNKNOMN_1.
KM Collagen.
SO SEQUENCE 744 AA; 73621 MW; BF7A7FD79D8463AA CRC64;

ID 096D07 PRELIMINARY: PRT: 744 AA.
AC 096D07;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Hypothetical 73.4 kDa protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC013581; AAH13581.1;
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
SO SEQUENCE 744 AA; 73621 MW; BF7A7FD79D8463AA CRC64;

ID 096D07 PRELIMINARY: PRT: 744 AA.
AC 096D07;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Hypothetical 73.4 kDa protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC013581; AAH13581.1;
DR InterPro: IPR001073; C1q.
DR InterPro: IPR000087; Collagen.
DR Pfam: PF00386; C1q; 1.
SO SEQUENCE 744 AA; 73621 MW; BF7A7FD79D8463AA CRC64;

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DB 643 NVPATYVDEYKKGYLDA--SGGAVILQRLPNDQVWVQMPSPDQNGLYSTREYTHSSPSGR 700
 OY 231 LV 232
 Db 701 LL 702

RESULT 12

09DCM6 PRELIMINARY; PRT: 245 AA.
 AC 09DCM6:
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-JUN-2001 (TREMBlrel. 17, Last annotation update)
 DE Complement component 1, q subcomponent, alpha polypeptide.
 CN C10A.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=KIDNEY;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawal J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Atakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanka I.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Glassl C., King B., Kochiya H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
 RA Schirml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Balderelli R., Barsh G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
 RA Brownstein M.J., Bult C., Fletcher M., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamliya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombert P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyokawa K., Wang K.H., Weitz C., Whitaker C., Wilting L.,
 RA Wyszynski A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
 RA Hayashizaki Y.,
 RA *Functional annotation of a full-length mouse cDNA collection.*;
 RT Nature 409:685-690(2001).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Strausberg R.;
 RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AK002655; BAB2262.1;
 DR EMBL: BC002086; AA02086.1;
 DR MGD: MGI:88223; C1qa.
 DR InterPro: IPR001073; C1q.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; C1q; 1.
 DR Pfam: PF00386; Collagen; 1.
 DR PRINTS: PR00007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 SQ SEQUENCE 245 AA; 25974 MW; 41C2066D49592020 CRC64;

Query Match 23.74; Score 314; DB 11; Length 245;
 Best Local Similarity 35.38; Pred. No. 2.7e-19;
 Matches 79; Conservative 24; Mismatches 85; Indels 36; Gaps 6;

OY 29 GPHRGLPTGPHHSGQLPGRDGRDGPAPGAPGEGGGRGLPGRDGRDGPGRGACR 88
 Db 36 GPHRGLPTGPHHSGQLPGRDGRDGPAPGAPGEGGGRGLPGRDGRDGPGRGACR 93
 OY 89 AGPTGAGGECV-----PRSAFSAKRSRVRPPSDAPLPEDRYLVNEQGHDAVTGK 142
 Db 94 SGGQGLKGVKNGKNGTRDPRPRAFSIRON---PMTLGNVVFEDRYLVNEQGHDAVTGK 150
 OY 143 FTCQVGVGVYFAVHATVVRASLQFDLVKNGESIASFFQFGGKPRPA----- 189

DB 151 FICAVPGGYF-----NFQVSKMDLCLFIRKSSSGGGRDSSSTNTNKKLQ 199
 OY 190 SLSSGAMRLPEPDVWVQVGVGYDTGYASIKRDSFFSGFLV 233
 Db 200 VLAGSTVLQRLGRDEWIEKDPANG-RYQCTEADSIFFSGFLV 242

RESULT 13

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 AC 09ES30:
 DT 01-MAR-2001 (TREMBlrel. 16, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE Collagenous repeat-containing sequence of 26kDa protein.
 CN COR3 OR COR326.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC MEDLINE=21264842; PubMed=11071891;
 RX Maeda T., Abe M., Kurisu K., Jikko A., Furukawa S.;
 RA "Molecular cloning and characterization of a novel gene, COR326,
 RA encoding a putative secretory protein and its possible involvement in
 RA skeletal development";
 RL J. Biol. Chem. 276:3628-3634(2001).
 DR EMBL: AF246265; AAC33704.1;
 DR MGD: MGI:1932136; COR3.
 DR InterPro: IPR001073; C1q.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; C1q; 1.
 DR Pfam: PF01391; Collagen; 1.
 DR PRINTS: PR00007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 SQ SEQUENCE 246 AA; 26828 MW; 42A481B3E9F48F7E CRC64;

Query Match 20.48; Score 270.5; DB 11; Length 246;
 Best Local Similarity 31.88; Pred. No. 1.5e-15;
 Matches 78; Conservative 33; Mismatches 107; Indels 27; Gaps 6;

OY 4 LTVLLGLA-----AGSPPLDNRKIPSLCPGHPGLPTGPHHSGQLPGRDGR 52
 Db 11 LTVLLGLA-----AGSPPLDNRKIPSLCPGHPGLPTGPHHSGQLPGRDGR 52
 OY 53 DGRDAPGAPGEGGGRGLPGRDGRDGPAPGAPGEGGGRGLPGRDGRDGPGRGACR 112
 Db 71 DGRDAPGAPGEGGGRGLPGRDGRDGPAPGAPGEGGGRGLPGRDGRDGPGRGACR 112
 OY 113 SRVPPSDAPLPEDVWVQVGVGYDTGYASIKRDSFFSGFLV 168
 Db 125 SRVPPSDAPLPEDVWVQVGVGYDTGYASIKRDSFFSGFLV 168
 OY 169 VKNGESIASFFQFGGKPRPASLSGAMVRLPEPDVWVQVGVGYDTGYASIKRDSFFSGFLV 228
 Db 183 VKNGESIASFFQFGGKPRPASLSGAMVRLPEPDVWVQVGVGYDTGYASIKRDSFFSGFLV 228
 OY 229 GFLVY 233
 Db 239 GFLVY 243

	Query Match	20.1%;	Score 266.5;	DB 11;	Length 196;
	Best Local Similarity	37.4%;	Pred. No. 2.5e-15;		
	Matches	70;	Conservative	23;	Mismatches 67; Indels 27; Gaps 7
QY	60	GARGEGGCGRCGLCPGRGDDPGREGA---	GPAPPTGPAGECSVPPPSAFSAKRSSRPV	116	
Db	25	GPCPAGVGNGVGGPGPRGPFQOGRPADRFDPDGGPKGSVKPCPRENSATTVFS--GRIP	83		
QY	117	PPSDAPLPDRDLVNEOGHYDAVYGKFTCOVPGVGYVAHVATVYRASLQFDLVKNKGESIA	176		
Db	84	PPSE-PVYPTEVLVTIQTORDLKASTGVEFCFEPGNGHFSFVELVTHCKVIGIKMLKHIOVM	142		
QY	177	SFFQFGGCHPKRPAKSLSGAMVR-LEPEDQVVWQGVGDYIGIVASIKITDST-----F	227		
Db	143	EKHQSLSKMEYEAS---GAMIMPLRODGKWLE-----ADVETEEPDQAKVITYE	189		
QY	228	SCGLTYS 234			
	190	SGFLISS 196			

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091907	
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AC	091907; PRELIMINARY; PRT; 246 AA.
DT	01-OCT-2000 (TREMBLrel. 15, Created)
DT	01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DT	01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE	Mannose binding-like lectin precursor (Fragment).
MBL	
OS	<i>Carassius auratus</i> (Goldfish).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC	Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC	Cyprinidae; Carassius.
OX	NCBI_TaxID=7957;
OX	[1]
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RP	SEQUENCE FROM N.A.
RC	TISSUE=LIVER.
RX	MEDLINE=20456722; PubMed=11003389;
RA	Ylved L., Holmskov U., Koch C., Teisner B., Hansen S., Skjold K.;
RT	*The homologue of mannose-binding lectin in the carp family Cyprinidae
RT	is expressed at high level in spleen, and the deduced primary
RT	structure predicts affinity for galactose.*;
RL	Immunogenetics 51:955-964(2000).
DR	EMBL: AF227739; AAF63470.1; -.
DR	HSSP: P35247; 1B08.
DR	InterPro: IPR000087; Collagen
DR	InterPro: IPR001304; Lectin_C.
DR	Pfam: PF01391; Collagen; 2.
DR	Pfam: PF00059; Lectin_c; 1.
DR	SMART: SM00034; CLECT; 1.

Query Match	19.18;	Score 252.5;	DB 13;	Length 246
Best Local Similarity	31.98;	Pred. No. 5.2e-14;		
Matches 80;	Conservative 33;	Mismatches 73;	Indels 65;	

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Job time : 83 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 18, 2003, 14:53:08 ; Search time 49 Seconds
(without alignments)
536.617 Million cell updates/sec

Title: US-09-943-851A-42

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Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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7: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
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13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	1325	100.0	243	9	US-09-944-403-42
3	1325	100.0	243	9	US-09-944-896-42
4	1325	100.0	243	9	US-09-944-944-42
5	1325	100.0	243	9	US-09-944-907-42
6	1325	100.0	243	9	US-09-944-929-42
7	1325	100.0	243	9	US-10-028-072-362
8	1325	100.0	243	9	US-10-121-049-362
9	1325	100.0	243	9	US-10-123-904-362
10	1325	100.0	243	9	US-10-140-470-362
11	1325	100.0	243	9	US-09-796-753-68
12	1325	100.0	243	9	US-10-175-746-362
13	1325	100.0	243	9	US-10-176-918-362
14	1325	100.0	243	9	US-10-176-921-362
15	1325	100.0	243	9	US-10-137-865-362
16	1325	100.0	243	9	US-10-140-474-362
17	1325	100.0	243	9	US-10-142-431-362
18	1325	100.0	243	9	US-10-143-114-362
19	1325	100.0	243	9	US-10-140-002-362

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22	1325	100.0	243	9	US-10-142-423-362	Sequence 362, App
23	1325	100.0	243	9	US-10-121-050-362	Sequence 362, App
24	1325	100.0	243	9	US-10-141-755-362	Sequence 362, App
25	1325	100.0	243	9	US-10-143-032-362	Sequence 362, App
26	1325	100.0	243	9	US-10-123-108-362	Sequence 362, App
27	1325	100.0	243	9	US-10-123-236-362	Sequence 362, App
28	1325	100.0	243	9	US-10-123-261-362	Sequence 362, App
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35	1325	100.0	243	9	US-10-124-822-362	Sequence 362, App
36	1325	100.0	243	9	US-10-160-498-362	Sequence 362, App
37	1325	100.0	243	9	US-09-944-884-42	Sequence 42, Appl
38	1325	100.0	243	9	US-10-121-041-362	Sequence 362, App
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ALIGNMENTS

RESULT 1

US-09-944-413-42
Sequence 42, Application US/09944413

Patent No. US20020156004A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillan, Kenneth

APPLICANT: Kijavlin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P2548P101

CURRENT APPLICATION NUMBER: US/09/944, 413

CURRENT FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: 09/866, 028

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/067, 411

PRIOR FILING DATE: December 3, 1997

PRIOR APPLICATION NUMBER: 60/069, 334

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069335

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069, 278

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069, 425

PRIOR FILING DATE: December 12, 1997

PRIOR APPLICATION NUMBER: 60/069, 696

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069, 694

PRIOR FILING DATE: December 16, 1997

PRIOR APPLICATION NUMBER: 60/069,702
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,870
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/069,873
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/068,017
 PRIOR FILING DATE: December 18, 1997
 PRIOR APPLICATION NUMBER: 60/070,440
 PRIOR FILING DATE: January 5, 1998
 PRIOR APPLICATION NUMBER: 60/074,086
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/074,092
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/075,945
 PRIOR FILING DATE: February 25, 1998
 PRIOR APPLICATION NUMBER: 60/112,850
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 60/113,296
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 60/146,222
 PRIOR FILING DATE: July 28, 1999
 PRIOR APPLICATION NUMBER: PCT/US98/19330
 PRIOR FILING DATE: September 16, 1998
 PRIOR APPLICATION NUMBER: PCT/US98/25108
 PRIOR FILING DATE: December 1, 1998
 PRIOR APPLICATION NUMBER: 09/216,021
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 09/218,517
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 09/254,311
 PRIOR FILING DATE: March 3, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: June 22, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: September 15, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28409
 PRIOR FILING DATE: No. US20020156004A1eember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28313
 PRIOR FILING DATE: No. US20020156004A1eember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28301
 PRIOR FILING DATE: December 1, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/30095
 PRIOR FILING DATE: December 16, 1999
 PRIOR APPLICATION NUMBER: PCT/US00/03565
 PRIOR FILING DATE: February 11, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/04414
 PRIOR FILING DATE: February 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/05841
 PRIOR FILING DATE: March 2, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/08439
 PRIOR FILING DATE: March 30, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/14042
 PRIOR FILING DATE: May 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/20710
 PRIOR FILING DATE: July 28, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/32678
 PRIOR FILING DATE: December 1, 2000
 PRIOR APPLICATION NUMBER: PCT/US01/06520
 PRIOR FILING DATE: February 28, 2001
 NUMBER OF SEQ ID NOS: 120
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 LENGTH: 243
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-09-944-413-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
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RESULT 2
 US-09-944-403-42
 Sequence 42, Application US/09944403
 Patent No. US20020165143A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin
 APPLICANT: Bolstein, David
 APPLICANT: Baton, Dan
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gerritsen, Mary
 APPLICANT: Goddard, Audrey
 APPLICANT: Grimaldi, Christopher
 APPLICANT: Gurney, Austin
 APPLICANT: Hillan, Kenneth
 APPLICANT: KJavin, Ivar
 APPLICANT: Napier, Mary
 APPLICANT: Roy, Margaret
 APPLICANT: Tunnas, Daniel
 APPLICANT: Wood, William
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P2548P1C1
 CURRENT APPLICATION NUMBER: US/09/944,403
 PRIOR FILING DATE: 2001-09-26
 PRIOR APPLICATION NUMBER: 09/866,028
 PRIOR FILING DATE: 2001-05-25
 PRIOR APPLICATION NUMBER: 60/067,411
 PRIOR FILING DATE: December 3, 1997
 PRIOR APPLICATION NUMBER: 60/069,334
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,335
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,278
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,425
 PRIOR FILING DATE: December 12, 1997
 PRIOR APPLICATION NUMBER: 60/069,696
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,694
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,702
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,870
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/069,873
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/068,017
 PRIOR FILING DATE: December 18, 1997
 PRIOR APPLICATION NUMBER: 60/070,440
 PRIOR FILING DATE: January 5, 1998
 PRIOR APPLICATION NUMBER: 60/074,086
 PRIOR FILING DATE: February 9, 1998

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PRIORITY APPLICATION NUMBER: 60/074,092
PRIORITY FILING DATE: February 9, 1998
PRIORITY APPLICATION NUMBER: 60/075,945
PRIORITY FILING DATE: February 25, 1998
PRIORITY APPLICATION NUMBER: 60/112,850
PRIORITY FILING DATE: December 16, 1998
PRIORITY APPLICATION NUMBER: 60/113,296
PRIORITY FILING DATE: December 22, 1998
PRIORITY APPLICATION NUMBER: 60/146,222
PRIORITY FILING DATE: July 28, 1999
PRIORITY APPLICATION NUMBER: PCT/US98/19330
PRIORITY FILING DATE: September 16, 1998
PRIORITY APPLICATION NUMBER: PCT/US98/25108
PRIORITY FILING DATE: December 1, 1998
PRIORITY APPLICATION NUMBER: 09/216,021
PRIORITY FILING DATE: December 16, 1998
PRIORITY APPLICATION NUMBER: 09/218,517
PRIORITY FILING DATE: December 22, 1998
PRIORITY APPLICATION NUMBER: 09/254,311
PRIORITY FILING DATE: March 3, 1999
PRIORITY APPLICATION NUMBER: PCT/US99/12252
PRIORITY FILING DATE: June 22, 1999
PRIORITY APPLICATION NUMBER: PCT/US99/21090
PRIORITY FILING DATE: September 15, 1999
PRIORITY APPLICATION NUMBER: PCT/US99/28409
PRIORITY FILING DATE: No. US20020165143A1ember 30, 1999
PRIORITY APPLICATION NUMBER: PCT/US99/28313
PRIORITY FILING DATE: December 1, 1999
PRIORITY APPLICATION NUMBER: PCT/US99/28301
PRIORITY FILING DATE: December 16, 1999
PRIORITY APPLICATION NUMBER: PCT/US99/30095
PRIORITY FILING DATE: February 11, 2000
PRIORITY APPLICATION NUMBER: PCT/US00/03565
PRIORITY FILING DATE: February 22, 2000
PRIORITY APPLICATION NUMBER: PCT/US00/04414
PRIORITY FILING DATE: March 2, 2000
PRIORITY APPLICATION NUMBER: PCT/US00/05841
PRIORITY FILING DATE: March 30, 2000
PRIORITY APPLICATION NUMBER: PCT/US00/08439
PRIORITY FILING DATE: May 22, 2000
PRIORITY APPLICATION NUMBER: PCT/US00/14042
PRIORITY FILING DATE: July 28, 2000
PRIORITY APPLICATION NUMBER: PCT/US00/32678
PRIORITY FILING DATE: December 1, 2000
PRIORITY APPLICATION NUMBER: PCT/US01/06520
PRIORITY FILING DATE: February 28, 2001
PRIORITY OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-403-42

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Query Match 100.0% Score 1325 DB 9 Length 243
Best Local Similarity 100.0% Pred. No. 2.3e-89
Matches 243: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 MRPLVLLLLGLAASPLDNDKIPSLCPGHPGCLGPTGHHGSGCLGRCGRDGRDAPG 60
1 MRPLVLLLLGLAASPLDNDKIPSLCPGHPGCLGPTGHHGSGCLGRCGRDGRDAPG 60
61 APGEHGEGRCGLPGRCGPRGEGPACPTGAGCCSVPPRSASFSAKSESRRVPPSD 120
61 APGEHGEGRCGLPGRCGPRGEGPACPTGAGCCSVPPRSASFSAKSESRRVPPSD 120
121 APLEFDRLVNEOGHYAVNGKTCQVRYYYFAVNAVTVRASIQEDLVNKGESIASFQ 180
121 APLEFDRLVNEOGHYAVNGKTCQVRYYYFAVNAVTVRASIQEDLVNKGESIASFQ 180
181 FFGGMPRPAISGSGAMVLEPEDQWVGVGVGDIYIGTASIKTDSFSGFLVYSDMHSSP 240
181 FFGGMPRPAISGSGAMVLEPEDQWVGVGVGDIYIGTASIKTDSFSGFLVYSDMHSSP 240

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DB 181 FFGGMPRPAISGSGAMVLEPEDQWVGVGVGDIYIGTASIKTDSFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

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RESULT 3
US-09-944-896-42
Sequence 42, Application US/09944896
Patent No. US20020168715A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Batton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT FILING DATE: 2001-08-31
PRIORITY FILING DATE: 2001-05-25
PRIORITY APPLICATION NUMBER: 09/866,028
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,334
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,335
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,278
PRIORITY FILING DATE: December 11, 1997
PRIORITY APPLICATION NUMBER: 60/069,425
PRIORITY FILING DATE: December 12, 1997
PRIORITY APPLICATION NUMBER: 60/069,696
PRIORITY FILING DATE: December 16, 1997
PRIORITY APPLICATION NUMBER: 60/069,694
PRIORITY FILING DATE: December 16, 1997
PRIORITY APPLICATION NUMBER: 60/069,702
PRIORITY FILING DATE: December 16, 1997
PRIORITY APPLICATION NUMBER: 60/069,870
PRIORITY FILING DATE: December 17, 1997
PRIORITY APPLICATION NUMBER: 60/069,873
PRIORITY FILING DATE: December 17, 1997
PRIORITY APPLICATION NUMBER: 60/068,017
PRIORITY FILING DATE: December 18, 1997
PRIORITY APPLICATION NUMBER: 60/070,440
PRIORITY FILING DATE: January 5, 1998
PRIORITY APPLICATION NUMBER: 60/074,086
PRIORITY FILING DATE: February 9, 1998
PRIORITY APPLICATION NUMBER: 60/074,092
PRIORITY FILING DATE: February 9, 1998
PRIORITY APPLICATION NUMBER: 60/075,945
PRIORITY FILING DATE: February 25, 1998
PRIORITY APPLICATION NUMBER: 60/112,850
PRIORITY FILING DATE: December 16, 1998
PRIORITY APPLICATION NUMBER: 60/113,296
PRIORITY FILING DATE: December 22, 1998
PRIORITY APPLICATION NUMBER: 60/146,222
PRIORITY FILING DATE: July 28, 1999
PRIORITY APPLICATION NUMBER: PCT/US98/19330
PRIORITY FILING DATE: September 16, 1998
PRIORITY APPLICATION NUMBER: PCT/US98/25108
PRIORITY FILING DATE: December 1, 1998

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;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/216,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020168715A1ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06530
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 42
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-896-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pctd. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNRKIPSLCPHPLPGTPRHSGSGCLPRGDRGRCGARG 60
DB 1 MRPLVLLLLGLAAGSPPLDNRKIPSLCPHPLPGTPRHSGSGCLPRGDRGRCGARG 60
QY 61 APGKGGGGRGRLPGPRGDPGRGAPGTPGAGGCSVPPRSARSRSPVPPSD 120
DB 61 APGKGGGGRGRLPGPRGDPGRGAPGTPGAGGCSVPPRSARSRSPVPPSD 120
QY 121 APLEFDRVLNEDGHDVATGKTCOVPGYVFAVATYRASLOFDLVKNESIASFEQ 180
DB 121 APLEFDRVLNEDGHDVATGKTCOVPGYVFAVATYRASLOFDLVKNESIASFEQ 180
QY 181 FFGGMRPRLSLSGANVRLEPEDQVWVGVVDYIGITVASIKTDSFGSLVYSDMHSPP 240
DB 181 FFGGMRPRLSLSGANVRLEPEDQVWVGVVDYIGITVASIKTDSFGSLVYSDMHSPP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 4
US-09-944-944-42

;; Sequence 42, Application US/09944944
;; Patent No. US20020173463A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David

;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerlitsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kljavin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548P1c1
;; CURRENT APPLICATION NUMBER: US/09/944,944
;; PRIOR FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: 09/866,028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,666
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
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;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999

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; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: No. US20020173463A1ember 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/006520
; PRIOR FILING DATE: February 28, 2001
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 42
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Saplen
US-09-944-944-42
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Query Match      100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MRPLVLLGLAAGSPPLDDNKIPSLCPGHGGLPCTPGHHSQGLPGRDGRDGRGAPG 60
DB 1 MRPLVLLGLAAGSPPLDDNKIPSLCPGHGGLPCTPGHHSQGLPGRDGRDGRGAPG 60
QY 61 APGEKGEGRGRLPGPRGDPGPRGEGAPGPTGPAGECSVPFRSAFSARSESRRVPPSD 120
DB 61 APGEKGEGRGRLPGPRGDPGPRGEGAPGPTGPAGECSVPFRSAFSARSESRRVPPSD 120
QY 121 APLEPRDLVNEOGHDAVTGKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFFQ 180
DB 121 APLEPRDLVNEOGHDAVTGKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFFQ 180
QY 181 FEGGWPKPASTLSGAMVRLPEDEQVWVGVGDYIGIYASIKTSTFSGFLVYSDMHSSP 240
DB 181 FEGGWPKPASTLSGAMVRLPEDEQVWVGVGDYIGIYASIKTSTFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243
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RESULT 5
US-09-944-907-42

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; Sequence 42, Application US/09944907
; Publication No. US20020198147A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
```

```

; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,907
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 42
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Saplen
US-09-944-907-42
```

```

Query Match      100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MRPLVLLGLAAGSPPLDDNKIPSLCPGHGGLPCTPGHHSQGLPGRDGRDGRGAPG 60
DB 1 MRPLVLLGLAAGSPPLDDNKIPSLCPGHGGLPCTPGHHSQGLPGRDGRDGRGAPG 60
QY 61 APGEKGEGRGRLPGPRGDPGPRGEGAPGPTGPAGECSVPFRSAFSARSESRRVPPSD 120
DB 61 APGEKGEGRGRLPGPRGDPGPRGEGAPGPTGPAGECSVPFRSAFSARSESRRVPPSD 120
QY 121 APLEPRDLVNEOGHDAVTGKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFFQ 180
DB 121 APLEPRDLVNEOGHDAVTGKFTCOVPGVYFFAVHATVYRASLOFDLVKNGESIASFFQ 180
QY 181 FEGGWPKPASTLSGAMVRLPEDEQVWVGVGDYIGIYASIKTSTFSGFLVYSDMHSSP 240
DB 181 FEGGWPKPASTLSGAMVRLPEDEQVWVGVGDYIGIYASIKTSTFSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243
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RESULT 6
US-09-944-929-42

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; Sequence 42, Application US/09944929
; Publication No. US20020197612A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kijavlin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548P1C1
; CURRENT APPLICATION NUMBER: US/09/944,929
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/866,028
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 42
; LENGTH: 243
; TYPE: PRT
```


ORGANISM: Homo Sapien
US-09-944-929-42

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLAGSPPLDDNKIPSLCPGHGHLPGTPRHHSQGLPRGDRGDRGAG 60
DB 1 MRPLVLLGLAGSPPLDDNKIPSLCPGHGHLPGTPRHHSQGLPRGDRGDRGAG 60
QY 61 ARGEKGEGRPGIPGRBGRGPRGEGAPGAPGECVSPRPSAFSAKRSPSRVPPSD 120
DB 61 ARGEKGEGRPGIPGRBGRGPRGEGAPGAPGECVSPRPSAFSAKRSPSRVPPSD 120
QY 121 APLPDRVLYNQGHDAVTGKFTCOVPCVYFPAVHATVYRASLQFDLVKNGESIASFQ 180
DB 121 APLPDRVLYNQGHDAVTGKFTCOVPCVYFPAVHATVYRASLQFDLVKNGESIASFQ 180
QY 181 FFGGMPKPSLSGAMVRLPEPDQYVWGVGDYIGTASIKTDSFGGLVYSPMHSSP 240
DB 181 FFGGMPKPSLSGAMVRLPEPDQYVWGVGDYIGTASIKTDSFGGLVYSPMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 7
US-10-028-072-362
Sequence 362, Application US/10028072
Publication No. US20030004311A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OF INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028,072
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059586

PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059836
PRIOR FILING DATE: 1997-09-24
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062814
PRIOR FILING DATE: 1997-10-24
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PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063045
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063127
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063327
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063550
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063561
PRIOR FILING DATE: 1997-10-28
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PRIOR FILING DATE: 1997-10-29
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PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063738
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063755
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064248
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/064809
PRIOR FILING DATE: 1997-11-07
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065846
PRIOR FILING DATE: 1997-11-17
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066453
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066511
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069212
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069278
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072320
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086414
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/086430
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088730
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088741
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445

PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090538
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAASPPDDNKITSLCPGCHGLPCTPCGHHSSQGLPGDGDGDGARG 60
DB 1 MRPLVLLLLGLAASPPDDNKITSLCPGCHGLPCTPCGHHSSQGLPGDGDGDGARG 60
QY 61 APGEKGGGPGPLPGPRGDPGRGAGPAGTPGAGGCSVPPRSASFSAKRSESRVPPSD 120
DB 61 APGEKGGGPGPLPGPRGDPGRGAGPAGTPGAGGCSVPPRSASFSAKRSESRVPPSD 120
QY 121 ALPFDRLVYNQGHYDAVTGKFTQVPGVYFVAHATYRASLQFDLVKNGESTIASFFQ 180
DB 121 ALPFDRLVYNQGHYDAVTGKFTQVPGVYFVAHATYRASLQFDLVKNGESTIASFFQ 180
QY 181 FFGGMPKPSLSGGAMVRLEPEDQYVVOGVGDYIGIYASIKTDSFGGLVYSWMHSSP 240
DB 181 FFGGMPKPSLSGGAMVRLEPEDQYVVOGVGDYIGIYASIKTDSFGGLVYSWMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 8
US-10-121-049-362
Sequence 362, Application US/10121049
Publication No. US2003002239A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C17
CURRENT FILING DATE: 2002-04-12
PRIOR APPLICATION NUMBER: US/10/121,049
NUMBER OF SEQ ID NOS: 550
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-121-049-362

Query Match 100.0%; Score 1325; DB 9; Length 243;

Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MRPLVLLLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTGCHHSGQLPGRCRGRDCAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTGCHHSGQLPGRCRGRDCAAG 60
OY 61 APGEKGGRRPGLPGRDPPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSPD 120
DB 61 APGEKGGRRPGLPGRDPPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSPD 120
OY 121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
DB 121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
OY 181 FEGGMPKPRASLSGAMVRLPEEDVWVVOVGVDYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FEGGMPKPRASLSGAMVRLPEEDVWVVOVGVDYIGIYASIKTDSFSGFLVYSMDHSSP 240
OY 241 VFA 243
DB 241 VFA 243
```

RESULT 9

US-10-123-904-362
Sequence 362, Application US/10123904
Publication No. US20030022328A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Mei-Qiang
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C54
CURRENT APPLICATION NUMBER: US/10/123,904
CURRENT FILING DATE: 2002-04-16
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-123-904-362

Query Match
Best Local Similarity 100.0%; Score 1325; DB 9; Length 243;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MRPLVLLLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTGCHHSGQLPGRCRGRDCAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTGCHHSGQLPGRCRGRDCAAG 60
OY 61 APGEKGGRRPGLPGRDPPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSPD 120
DB 61 APGEKGGRRPGLPGRDPPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSPD 120
OY 121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
DB 121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
```

DB

121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180

OY

181 FEGGMPKPRASLSGAMVRLPEEDVWVVOVGVDYIGIYASIKTDSFSGFLVYSMDHSSP 240

DB

181 FEGGMPKPRASLSGAMVRLPEEDVWVVOVGVDYIGIYASIKTDSFSGFLVYSMDHSSP 240

OY

241 VFA 243

DB

241 VFA 243

RESULT 10

US-10-140-470-362
Sequence 362, Application US/10140470
Publication No. US20030022331A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Mei-Qiang
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C160
CURRENT APPLICATION NUMBER: US/10/140,470
CURRENT FILING DATE: 2002-05-06
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-470-362

Query Match
Best Local Similarity 100.0%; Score 1325; DB 9; Length 243;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 MRPLVLLLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTGCHHSGQLPGRCRGRDCAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKKIPSLCPGHPGLPCTGCHHSGQLPGRCRGRDCAAG 60
OY 61 APGEKGGRRPGLPGRDPPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSPD 120
DB 61 APGEKGGRRPGLPGRDPPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSPD 120
OY 121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
DB 121 APLEPDRVLVNEGCHYDAVTGKFTCOVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
OY 181 FEGGMPKPRASLSGAMVRLPEEDVWVVOVGVDYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FEGGMPKPRASLSGAMVRLPEEDVWVVOVGVDYIGIYASIKTDSFSGFLVYSMDHSSP 240
OY 241 VFA 243
DB 241 VFA 243
```

RESULT 11

US-09-796-753-68

OY 241 VFA 243
DB 241 VFA 243

RESULT 13

US-10-176-918-362
Sequence 362, Application US/10176918
Publication No. US20030027275A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C382
CURRENT APPLICATION NUMBER: US/10/176,918
CURRENT FILING DATE: 2002-06-20
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-176-918-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPCTPGHHGSGQLPRGDRGRGAGC 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPCTPGHHGSGQLPRGDRGRGAGC 60
OY 61 APGEKGGGRGLPGPRGDPGPRGEGAPGPTGPAGECVPPPSAFSAKRSRVPSPD 120
DB 61 APGEKGGGRGLPGPRGDPGPRGEGAPGPTGPAGECVPPPSAFSAKRSRVPSPD 120
OY 121 APFPDRVLVNEGCHDAVTGKFTCOVPGVYFAVHATYRASLOPDLVKNESIASFFQ 180
DB 121 APFPDRVLVNEGCHDAVTGKFTCOVPGVYFAVHATYRASLOPDLVKNESIASFFQ 180
OY 181 FFGGMPKPSLSCGAWYRLPEPDQVWVGVGYDYIGITVASIKTSTFSGFLVYSDMHSP 240
DB 181 FFGGMPKPSLSCGAWYRLPEPDQVWVGVGYDYIGITVASIKTSTFSGFLVYSDMHSP 240
OY 241 VFA 243
DB 241 VFA 243

RESULT 14

US-10-176-921-362
Sequence 362, Application US/10176921
Publication No. US20030027276A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen

APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C288
CURRENT APPLICATION NUMBER: US/10/176,921
CURRENT FILING DATE: 2002-06-20
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-176-921-362

Query Match 100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPCTPGHHGSGQLPRGDRGRGAGC 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPCTPGHHGSGQLPRGDRGRGAGC 60
OY 61 APGEKGGGRGLPGPRGDPGPRGEGAPGPTGPAGECVPPPSAFSAKRSRVPSPD 120
DB 61 APGEKGGGRGLPGPRGDPGPRGEGAPGPTGPAGECVPPPSAFSAKRSRVPSPD 120
OY 121 APFPDRVLVNEGCHDAVTGKFTCOVPGVYFAVHATYRASLOPDLVKNESIASFFQ 180
DB 121 APFPDRVLVNEGCHDAVTGKFTCOVPGVYFAVHATYRASLOPDLVKNESIASFFQ 180
OY 181 FFGGMPKPSLSCGAWYRLPEPDQVWVGVGYDYIGITVASIKTSTFSGFLVYSDMHSP 240
DB 181 FFGGMPKPSLSCGAWYRLPEPDQVWVGVGYDYIGITVASIKTSTFSGFLVYSDMHSP 240
OY 241 VFA 243
DB 241 VFA 243

RESULT 15

US-10-137-865-362
Sequence 362, Application US/10137865
Publication No. US20030032155A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K

```

; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C154
; CURRENT APPLICATION NUMBER: US/10/137,865
; CURRENT FILING DATE: 2002-05-03
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 362
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-865-362

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```

Query Match      100.0%; Score 1325; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.3e-89;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPCTPGHGSQGLPRGDRGDRGAPG 60
      |||
Db      1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPCTPGHGSQGLPRGDRGDRGAPG 60
      |||

QY      61 APGEKGGGRGRLPGPRGDPGRGEAGPAGTGPAGECSYPPRSAPSAKRSRVPSPD 120
      |||
Db      61 APGEKGGGRGRLPGPRGDPGRGEAGPAGTGPAGECSYPPRSAPSAKRSRVPSPD 120
      |||

QY      121 APLPFDRLVNEEGHDAVTGKFTCOVPGYTFPAVHATYRASLQFDLVKNGESIASFFQ 180
      |||
Db      121 APLPFDRLVNEEGHDAVTGKFTCOVPGYTFPAVHATYRASLQFDLVKNGESIASFFQ 180
      |||

QY      181 FFGGMPKPASLSGAVRLEPEDQVWVQVGVGDYIGIYASIKTDSFEFGFLVSDWHSSP 240
      |||
Db      181 FFGGMPKPASLSGAVRLEPEDQVWVQVGVGDYIGIYASIKTDSFEFGFLVSDWHSSP 240
      |||

QY      241 VFA 243
      |||
Db      241 VFA 243

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Search completed: June 18, 2003, 15:02:35
 Job time : 57 secs

PR 29-APR-1998; 98US-0083500.

PR 22-MAY-1998; 98US-0086414.
PR 10-JUN-1998; 98US-0088742.
PR 10-NOV-1998; 98US-0107783.

PA (GETH) GENENTECH INC.

PI Botstein D, Goddard A, Gurney AL, Hillian KJ, Lawrence DA;
PI Roy MA, Wood WI;

DR WPI; 1999-430385/36.
DR N-PSDB; AAX87258.

PT Antibody against proteins expressed in neoplastic cells, useful for
PT tumor diagnosis and treatment

PS Example 1; Fig 10; 162pp; English.

CC This sequence represents human PRO344 (UNQ303), a protein encoded
CC by the novel cDNA clone DNA40592 (see AAX87258). Amplification of
CC DNA40592 was observed in primary lung tumours and in primary colon
CC tumours, suggesting a significant role in tumour formation and
CC growth. Antagonists (e.g. antibodies) directed to PRO344 may have
CC use in cancer therapy. The invention identifies 14 genes (see
CC AAX87254-67) that are amplified in the genome of tumour cells. Such
CC amplification is expected to be associated with overexpression of
CC the gene product and to contribute to tumorigenesis. The encoded
CC proteins (see AAY06477-90) may be useful targets for the diagnosis
CC and/or treatment (including prevention) of certain cancers, and may
CC act as predictors of the prognosis of tumour treatment. Antibodies
CC that bind the proteins are claimed and used in claimed cancer
CC diagnostic kits.

SQ Sequence 243 AA:

Query Match 100.0%; Score 243; DB 20; Length 243;
Best Local Similarity 100.0%; Pred. No. 4.9e-212;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGTHHSGGLRGDRGRCAGP 60
DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGTHHSGGLRGDRGRCAGP 60
QY 61 APGEGGEGGRGLGPRGDCPPRCGACGAGPTGAGCSPVPRSAFAKRSERVPSPD 120
DB 61 APGEGGEGGRGLGPRGDCPPRCGACGAGPTGAGCSPVPRSAFAKRSERVPSPD 120
QY 121 APLEFDRVLVNEOGHYDAVTKFTCOVPGVYFAVHATYRASLQDFLVKNGESIASFQ 180
DB 121 APLEFDRVLVNEOGHYDAVTKFTCOVPGVYFAVHATYRASLQDFLVKNGESIASFQ 180
QY 181 FFGGMPKPRASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FFGGMPKPRASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 2

AAI17827
ID AAI17827 standard; Protein; 243 AA.

AC AAI17827;

DT 12-AUG-1999 (first entry)

DE Human PRO344 protein sequence.

KM Human: PRO protein: tumour necrosis factor family; TNF; cytokine;
KW secreted protein: transmembrane protein; inflammation disorder.
OS Homo sapiens.

XX MO9928462-A2.
XX 10-JUN-1999.

PD 01-DEC-1998; 98WO-US25108.

PF 25-FEB-1998; 98US-0075945.

PR 03-DEC-1997; 97US-0067411.

PR 11-DEC-1997; 97US-0069278.

PR 11-DEC-1997; 97US-0069334.

PR 11-DEC-1997; 97US-0069335.

PR 12-DEC-1997; 97US-0069425.

PR 16-DEC-1997; 97US-0069694.

PR 16-DEC-1997; 97US-0069696.

PR 17-DEC-1997; 97US-0069702.

PR 17-DEC-1997; 97US-0069870.

PR 18-DEC-1997; 97US-0069873.

PR 05-JAN-1998; 97US-0068017.

PR 09-FEB-1998; 98US-0070440.

PR 09-FEB-1998; 98US-0074086.

PR 09-FEB-1998; 98US-0074092.

PA (GETH) GENENTECH INC.

XX Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;

XX Yuan J;

PI WPI; 1999-371118/31.

DR N-PSDB; AAX80052.

PS Claim 12; Fig 21; 123pp; English.

XX The present invention describes nucleic acids encoding PRO secreted and

CC transmembrane proteins used therapeutically. The PRO proteins have

CC cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive

CC activity. The proteins and polynucleotides can be used in therapy,

CC identification of homologues, raising antibodies and design of probes

CC and primers. They can be used in a range of diseases related to proteins

CC that they have homology with, e.g. a PRO protein having homology to

CC complement proteins may be used in inflammatory responses.

SQ Sequence 243 AA:

Query Match 100.0%; Score 243; DB 20; Length 243;
Best Local Similarity 100.0%; Pred. No. 4.9e-212;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGTHHSGGLRGDRGRCAGP 60
DB 1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHPGLPTGTHHSGGLRGDRGRCAGP 60
QY 61 APGEGGEGGRGLGPRGDCPPRCGACGAGPTGAGCSPVPRSAFAKRSERVPSPD 120
DB 61 APGEGGEGGRGLGPRGDCPPRCGACGAGPTGAGCSPVPRSAFAKRSERVPSPD 120
QY 121 APLEFDRVLVNEOGHYDAVTKFTCOVPGVYFAVHATYRASLQDFLVKNGESIASFQ 180
DB 121 APLEFDRVLVNEOGHYDAVTKFTCOVPGVYFAVHATYRASLQDFLVKNGESIASFQ 180
QY 181 FFGGMPKPRASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FFGGMPKPRASLSGAMVRLPEPDQVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 3

AAW97984

AAW97984 standard; Protein: 243 AA.
 AAW97984;
 21-JUN-1999 (first entry)
 Human adipocyte-specific protein zs1g39.
 Adipocyte-specific protein; zs1g39; human; fatty acid metabolism;
 energy balance; nutrition; antimicrobial.
 Homo sapiens.
 Location/Qualifiers
 1..15
 /note= "signal peptide, alternatively the signal
 peptide comprises residues 1..18"
 16..243
 /note= "mature protein, alternatively the mature
 protein comprises residues 19..243
 (specifically claimed in Claim 4)"
 30..96
 /note= "collagen-like domain"
 98..243
 /note= "globular domain"
 105..109
 /note= "beta strand"
 128..130
 /note= "beta strand"
 136..139
 /note= "beta strand"
 143..146
 /note= "beta strand"
 164..171
 /note= "beta strand"
 176..182
 /note= "beta strand"
 187..200
 /note= "beta strand"
 204..210
 /note= "beta strand"
 226..231
 /note= "beta strand"
 111..135
 /note= "receptor binding domain"
 170..174
 /note= "receptor binding domain"
 MO9910492-A1.
 04-MAR-1999.
 26-AUG-1998; 98MO-US17724.
 26-AUG-1997; 97US-0056983.
 (ZYMO) ZYMOGENETICS INC.
 Humes JM, Sheppard PO;
 WPI: 1999-204665/17.
 N-PSDB: AAX24684.
 zs1g39 protein - used to modulate fatty acid metabolism
 Claim 1; 111-112; 132pp; English.
 This polypeptide comprises human adipocyte-specific protein zs1g39,
 a protein that modulates free fatty acid metabolism. zs1g39 is a
 member of a family of proteins having a globular domain and a
 collagen-like domain capable of dimerisation or oligomerisation.
 zs1g39 polypeptides were initially identified by querying an EST
 database for secretory signal sequences characterised by an upstream

methionine start site, a hydrophobic region of approximately 13
 amino acids and a cleavage site. A single EST sequence was
 discovered, and the novel polypeptide encoded by the full-length
 cDNA allowed the identification of a homologue relationship with
 adipocyte complement related protein Acrp30 and adipocyte secreted
 protein APM1. A full-length clone (see AAX24684) was obtained from a
 lung tissue library. Expression vectors, cultured cells and a
 method of producing zs1g39 polypeptide are claimed, as well as
 zs1g39 polypeptides having N- or C-terminal affinity tags, toxins,
 radionuclides, enzymes or fluorophores, fusion proteins
 including zs1g39 polypeptides, an antibody that specifically
 binds to an epitope of zs1g39, and a method for modulating free
 fatty acid metabolism by administering a zs1g39 polypeptide. The
 zs1g39 polypeptide may also be used in organ preservation, for
 cryopreservation, for surgical pretreatment to prevent injury due
 to ischaemia and/or inflammation, and as an antimicrobial agent,
 promoting lysis or phagocytosis of infectious agents.
 Sequence 243 AA:
 5Q
 Query Match 100.0%; Score 243; DB 20; Length 243;
 Best Local Similarity 100.0%; Pred. No. 4.9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 MRPLVLLLLGLAAGSPPLDNRKIPSLCPGHPGLPTGCHHSGSLGRDGRDRCAGC 60
 DB 1 MRPLVLLLLGLAAGSPPLDNRKIPSLCPGHPGLPTGCHHSGSLGRDGRDRCAGC 60
 OY 61 APGEKGEGRGRLPGPRDPCGRGAGPAGPTGAGECVPPRASFSAKRSSESVPPSPD 120
 DB 61 APGEKGEGRGRLPGPRDPCGRGAGPAGPTGAGECVPPRASFSAKRSSESVPPSPD 120
 OY 121 APLPDRVRLVNEOGHYDVTGKFTCOVPGVYFVAHVAVRASLQDFLVNNGESIASFFQ 180
 DB 121 APLPDRVRLVNEOGHYDVTGKFTCOVPGVYFVAHVAVRASLQDFLVNNGESIASFFQ 180
 OY 181 FFGGPKPRLASLGGAMVRLPEPDQWVQVGVDTIGIYASIKTDSFGFLVYSDMHSSP 240
 DB 181 FFGGPKPRLASLGGAMVRLPEPDQWVQVGVDTIGIYASIKTDSFGFLVYSDMHSSP 240
 OY 241 VFA 243
 DB 241 VFA 243
 RESULT 4
 AAB33461
 ID AAB33461 standard; Protein: 243 AA.
 AC AAB33461;
 XX
 DT 29-JAN-2001 (first entry)
 XX
 DE Human PRO344 protein UNQ303 SEQ ID NO:241.
 XX
 KW Human: immune related disease; diagnosis; antinflammatory; cardiac;
 KW dermatological; antidiabetic; antirheumatic; immunosuppressive;
 KW haemostatic; antithyroid; antidiabetic; neuroprotective;
 KW antineoplastic; hepatotropic; virucide; antiparasitic; antiallergic;
 KW osteoarthritis; systemic lupus erythematosus; rheumatoid arthritis;
 KW idiopathic inflammatory myopathy; systemic sclerosis; sarcoidosis;
 KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
 KW autoimmune thrombocytopenia; immune-mediated renal disease;
 KW demyelinating disease; hepatobiliary disease; Whipple's disease;
 KW inflammatory bowel disease; gluten-sensitive enteropathy;
 KW autoimmune disease; immune-mediated skin disease; allergic disease;
 KW immunological disease; transplantation associated disease;
 KW graft rejection; graft-versus-host-disease;
 XX Homo sapiens.
 OS
 XX
 PN MO200053758-A2.

PR 16-DEC-1998: 98US-01132850.
 PR 22-DEC-1998: 98US-0113296.
 PR 20-JUL-1999: 99US-0144758.
 PR 26-JUL-1999: 99US-0145698.

PA (GETH) GENENTECH INC.

PI Chen J, Goddard A, Gurney AL, Hillan K, Napier M, Wood WI;

XX MPI: 2000-412325/35.

DR N-PSDB; AAD01241.

XX New composition useful for inhibiting neoplastic cell growth and for
 PT treating cancers, comprises PRO655, PRO344 or PRO364 polypeptide or
 PT their antagonists -

PS Claim 31: Fig 6: 108pp; English.

XX The present sequence is the human PRO344 protein, encoded by the cDNA
 CC clone, designated as DNA40592-1242. It is isolated from human foetal
 CC lung tissue, cDNA library. Identified using probes based on a consensus
 CC sequence DNA44398, derived from secreted protein extracellular domain
 CC (EGD) expressed sequence tag (EST). This clone is assigned ATCC deposit
 CC No: 209492. PRO344 functions as a neoplastic cell growth inhibitor and
 CC is used for treating tumours, using an effective amount of PRO655, PRO364
 CC and PRO344. This composition is especially useful for treatment of human
 CC cancers such as breast, prostate, colon, lung, renal, ovarian and CNS,
 CC leukemia and melanoma.

XX Sequence 243 AA:

Query Match 100.0%; Score 243; DB 21; Length 243;

Best Local Similarity 100.0%; Pred. No. 4.9e-212.

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLAAGSPRLDNNKIPSLCPGHPGLPCTPRGHSQGLPRGRDGRDGRDAPG 60
 Db 1 MRPLVLLGLAAGSPRLDNNKIPSLCPGHPGLPCTPRGHSQGLPRGRDGRDGRDAPG 60
 QY 61 APGEKGGGRGRLPGPRGDPGRGEGAPRGPRGACSCVPPRSASAKRSERVPPSD 120
 Db 61 APGEKGGGRGRLPGPRGDPGRGEGAPRGPRGACSCVPPRSASAKRSERVPPSD 120
 QY 121 APPLPFDRLVNEGGHYDAVTGKFTCPGVYFAVAHATYRASLQFDLVKNGESTIASFPQ 180
 Db 121 APPLPFDRLVNEGGHYDAVTGKFTCPGVYFAVAHATYRASLQFDLVKNGESTIASFPQ 180
 QY 181 FFGGWKRPASLSGAMVRLPEPDQVWVGVGCDYIGIVASIKTDSFSGFLVYSDMHSSP 240
 Db 181 FFGGWKRPASLSGAMVRLPEPDQVWVGVGCDYIGIVASIKTDSFSGFLVYSDMHSSP 240
 QY 241 VFA 243
 Db 241 VFA 243

RESULT 6

AA93688 ID AA93688 standard; Protein: 243 AA.

AC AA93688;

DT 03-OCT-2000 (first entry)

DE Amino acid sequence of novel polypeptide PRO344.

XX PRO201; PRO292; PRO327; PRO1265; PRO344; PRO343; PRO347; PRO357;

KM PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; Tumour cell;

XX tumorigenesis; cancer; neoplastic cell growth; cell proliferation.

OS Homo sapiens.

XX Key Location/Qualifiers

FT Peptide 1..15
 FT /note- "signal peptide"
 FT Modified-site 11..17
 FT /note- "N-myristoylation site"
 FT Modified-site 68..74
 FT /note- "N-myristoylation site"
 FT Region 77..80
 FT /note- "cell attachment sequence"
 FT Modified-site 216..222
 FT /note- "N-myristoylation site"

XX MO200037640-A2.

XX 29-JUN-2000.

XX 16-DEC-1999: 99WO-US30095.

XX 22-DEC-1998: 98US-0113296.

XX 08-MAR-1999: 99WO-US05028.

XX 02-JUN-1999: 99WO-US12252.

XX 01-SEP-1999: 99WO-US20111.

XX 15-SEP-1999: 99WO-US21090.

XX 30-NOV-1999: 99WO-US28313.

XX 01-DEC-1999: 99WO-US28409.

XX 02-DEC-1999: 99WO-US28301.

XX (GETH) GENENTECH INC.

XX Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA;

XX Wood WI;

XX MPI: 2000-452188/39.

XX N-PSDB; AAA46907.

XX New anti-polypeptide antibody useful in the treatment and diagnosis of

XX neoplastic cell growth and proliferation -

XX Claim 61: Fig 10: 220pp; English.

XX The present sequence represents a novel human polypeptide. The
 CC specification describes novel polypeptides designated PRO201, PRO292,
 CC PRO327, PRO1265, PRO344, PRO343, PRO347, PRO357, PRO1017,
 CC PRO1112, PRO509, PRO853 and PRO882. These genes are amplified in
 CC the genome of tumour cells. The polypeptides are believed to contribute
 CC to tumorigenesis. The polypeptides are useful target for the
 CC identification of certain cancers, and may act as predictors of the
 CC prognosis of tumour treatment. Antibodies against these polypeptides
 CC are useful in the treatment and diagnosis of neoplastic cell growth
 CC and proliferation in mammals.

XX Sequence 243 AA:

Query Match 100.0%; Score 243; DB 21; Length 243;

Best Local Similarity 100.0%; Pred. No. 4.9e-212.

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLAAGSPRLDNNKIPSLCPGHPGLPCTPRGHSQGLPRGRDGRDGRDAPG 60
 Db 1 MRPLVLLGLAAGSPRLDNNKIPSLCPGHPGLPCTPRGHSQGLPRGRDGRDGRDAPG 60
 QY 61 APGEKGGGRGRLPGPRGDPGRGEGAPRGPRGACSCVPPRSASAKRSERVPPSD 120
 Db 61 APGEKGGGRGRLPGPRGDPGRGEGAPRGPRGACSCVPPRSASAKRSERVPPSD 120
 QY 121 APPLPFDRLVNEGGHYDAVTGKFTCPGVYFAVAHATYRASLQFDLVKNGESTIASFPQ 180
 Db 121 APPLPFDRLVNEGGHYDAVTGKFTCPGVYFAVAHATYRASLQFDLVKNGESTIASFPQ 180
 QY 181 FFGGWKRPASLSGAMVRLPEPDQVWVGVGCDYIGIVASIKTDSFSGFLVYSDMHSSP 240
 Db 181 FFGGWKRPASLSGAMVRLPEPDQVWVGVGCDYIGIVASIKTDSFSGFLVYSDMHSSP 240

OY 241 VFA 243
 DB 241 VFA 243

RESULT 7

AAB01318 standard; protein: 243 AA.

AC AAB01318;

DT 25-SEP-2000 (first entry)

DE Human PRO344 polypeptide.

XX PRO: Membrane bound protein; secreted protein: PRO357; PRO327;
 KW PRO243; PRO241; PRO293; PRO299; PRO233; PRO344; PRO347;
 KM PRO355; PRO361; PRO365; transmembrane polypeptide;
 XX antibody; screening; detection; inhibition; probe; primer; human.

OS Homo sapiens.

FT Key Location/Qualifiers
 FT Peptide 1..15

FT Modified-site /label= Signal peptide

FT Modified-site /note= "N-myristoylation site"

FT Modified-site /note= "N-myristoylation site"

FT Modified-site /label= Cell attachment sequence

FT Modified-site /note= "N-myristoylation site"

XX WO200032776-A2.

XX 08-JUN-2000.

PF 01-DEC-1999; 99WO-US28301.

PR 01-DEC-1998; 98WO-US25108.

PR 16-DEC-1998; 98US-0112850.

PR 22-DEC-1998; 98US-0113296.

PA (GETH) GENENTECH INC.

PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E;
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
 PI Hillan KJ, Kljavin IJ, Napier MA, Roy MA, Tumas D, Wood WT;

XX WPI: 2000-412324/35.

DR N-PSDB: AAA49560.

XX New human nucleic acids encoding secreted and transmembrane
 PT polypeptides, designated as PRO polypeptides, useful as pharmaceutical
 PT and diagnostic agents

PS Claim 12: Fig 18: 187bp; English.

XX New human nucleic acids encoding secreted and transmembrane
 CC polypeptides which are designated as PRO polypeptides are described
 CC The membrane-bound proteins have various industrial applications,
 CC including as pharmaceutical and diagnostic agents. The membrane-bound
 CC proteins can also be employed for screening of potential polypeptide or
 CC small molecule inhibitors of the relevant receptor/ligand interaction.
 CC Anti-PRO antibodies are useful for the affinity purification of PRO
 CC from recombinant cell culture or natural sources.

XX Sequence 243 AA:

Query Match 100.0%; Score 243; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred No. 4.9e-212;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGQLPGRDGRDGPAG 60
 DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHSGQLPGRDGRDGPAG 60
 OY 61 APGEKGGRRPGLGPRRDPGPRGEAGPAGTGTAGECSPVPRSAFSAKRSSESVPPSD 120
 DB 61 APGEKGGRRPGLGPRRDPGPRGEAGPAGTGTAGECSPVPRSAFSAKRSSESVPPSD 120
 OY 121 ALPEPDRVLVNEQGHYDAVTGFTQVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
 DB 121 ALPEPDRVLVNEQGHYDAVTGFTQVPGVYFFAVHATVYRASLQFDLVNKGESIASFFQ 180
 OY 181 FFGGMPKPRASLSGAMVRLPEPDQVWQVGVGYIGIYASIKTDSFSGFLVYSDMHSSP 240
 DB 181 FFGGMPKPRASLSGAMVRLPEPDQVWQVGVGYIGIYASIKTDSFSGFLVYSDMHSSP 240
 OY 241 VFA 243
 DB 241 VFA 243

RESULT 8

AAB01352 standard; protein: 243 AA.

AC AAB01352;

DT 24-OCT-2001 (first entry)

DE Human PRO344 polypeptide sequence.

XX Human secretory and transmembrane; PRO: mammalian; cancer; lung;
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 XX adipocyte; A-peptide; factor VIIA; gene therapy.

OS Homo sapiens.

PN WO200140466-A2.

PD 07-JUN-2001.

PF 01-DEC-2000; 2000WO-US32678.

PR 01-DEC-1999; 99WO-US28301.

PR 02-DEC-1999; 99WO-US28334.

PR 02-DEC-1999; 99WO-US28551.

PR 02-DEC-1999; 99WO-US28564.

PR 09-DEC-1999; 99US-0170262.

PR 16-DEC-1999; 99WO-US30095.

PR 20-DEC-1999; 99WO-US30911.

PR 20-DEC-1999; 99WO-US30999.

PR 30-DEC-1999; 99WO-US31243.

PR 06-JAN-2000; 2000WO-US00277.

PR 06-JAN-2000; 2000WO-US00376.

PR 11-FEB-2000; 2000WO-US00365.

PR 18-FEB-2000; 2000WO-US04341.

PR 22-FEB-2000; 2000WO-US04414.

PR 24-FEB-2000; 2000WO-US04914.

PR 01-MAR-2000; 2000WO-US05004.

PR 01-MAR-2000; 2000WO-US05601.

PR 20-MAR-2000; 2000WO-US07377.

PR 21-MAR-2000; 2000WO-US07532.

PR 30-MAR-2000; 2000WO-US08439.

PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000; 2000WO-US14042.

PR 30-MAY-2000; 2000WO-US14941.

PR 02-JUN-2000; 2000WO-US15264.

PR 10-NOV-2000; 2000WO-US30873.

PA (GETH) GENENTECH INC.

XX Baker KP, Bersiani M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
XX Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX WPI: 2001-408281/43.
XX N-PSDB: AAS21424.

XX Isolated, secretory and transmembrane PRO polypeptide used to detect
XX other PRO polypeptides, link bioactive molecules to cells expressing
XX PRO polypeptides, and detect the presence of mammalian tumours e.g.
XX lung, breast, prostate, cervical

XX Claim 12: Fig 362; 813pp; English.

XX AAU2172-AAU2446 represent novel human secretory and transmembrane
XX PRO polypeptides. The PRO polypeptides are useful to detect other
XX PRO polypeptides, to link bioactive molecules to cells expressing
XX PRO polypeptides, to modulate biological activities of cells expressing
XX PRO polypeptides, and to detect the presence of mammalian lung, colon,
XX breast, prostate, rectal, cervical or liver tumours by comparing PRO
XX polypeptide expression in a cell sample to that in a control sample.
XX Some of the 275 sequences are also useful to stimulate the release of
XX tumour necrosis factor-alpha (TNF-alpha) from human blood, the
XX proliferation or differentiation of chondrocytes, the proliferation or
XX gene expression in pericyte cells, the release of proteoglycans from
XX of T-lymphocytes, the proliferation of inner ear utricular supporting cells or
XX monocytes (PBMCs), or the proliferation of endothelial cells. Some of
XX the PRO polypeptides may modulate glucose or free fatty acid uptake by
XX skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
XX to factor VIIA. The PRO polypeptides can be used in assays to identify
XX molecules involved in binding interactions. The polynucleotides encoding
XX PRO polypeptides can be used to generate probes, antisense RNA/DNA,
XX transgenic or knock out animals and can be used in gene therapy.

XX Sequence 243 AA:

Query Match 100.0%; Score 243; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 4.9e-212;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTPGHNGSGGLRGDRGRCGAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTPGHNGSGGLRGDRGRCGAPG 60
QY 61 APERGEGGRGRLPGRCRDPGRGEGAPGPTGPAECSSVPPSAFSAKRSSESVPPSPD 120
DB 61 APERGEGGRGRLPGRCRDPGRGEGAPGPTGPAECSSVPPSAFSAKRSSESVPPSPD 120
QY 121 APLPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ 180
DB 121 APLPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPAISLGGAMVRLPEPDQVWVGVGDYIGTASIKTDSFGFLVYSDMHSSP 240
DB 181 FFGGMPKPAISLGGAMVRLPEPDQVWVGVGDYIGTASIKTDSFGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 9

AAAB65815

XX AAB65815 standard; Protein: 243 AA.

XX AAB65815;
XX 28-MAR-2001 (first entry)
XX Human TANGO 253 SEQ ID NO: 3.

XX Human; mouse; secreted protein: TANGO253; TANGO 257; TANGO 281;
XX INTERCEPT 258; coronary disorder; olfactory disorder;
XX neurological disorder; pulmonary disorder; immunological disorder;
XX developmental disorder; kidney disorder.

XX Homo sapiens.

XX WO200078808-A1.

XX 28-DEC-2000.

XX 19-JUN-2000; 2000MO-US16883.

XX 18-JUN-1999; 99US-0336536.

XX (MILL-) MILLENNIUM PHARM INC.

XX Leiby KR, McKay C, Bossone S;
XX WPI: 2001-050109/06.

XX New nucleic acids for treating diseases and disorders, e.g.

XX atherosclerosis, infection, autoimmune diseases, obesity, ear

XX disorders, brain disorders, tumors, diabetes, arthritis, multiple

XX sclerosis and asthma.

XX Claim 9; Page 211-212; 332pp; English.

XX The present invention provides the protein and coding sequences of the
XX human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,
XX TANGO 281 and INTERCEPT 258. These are useful in the treatment of
XX coronary, pulmonary, olfactory, immunological, neurological,
XX developmental and kidney disorders.

XX Sequence 243 AA:

Query Match 100.0%; Score 243; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 4.9e-212;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTPGHNGSGGLRGDRGRCGAPG 60
DB 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTPGHNGSGGLRGDRGRCGAPG 60
QY 61 APERGEGGRGRLPGRCRDPGRGEGAPGPTGPAECSSVPPSAFSAKRSSESVPPSPD 120
DB 61 APERGEGGRGRLPGRCRDPGRGEGAPGPTGPAECSSVPPSAFSAKRSSESVPPSPD 120
QY 121 APLPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ 180
DB 121 APLPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPAISLGGAMVRLPEPDQVWVGVGDYIGTASIKTDSFGFLVYSDMHSSP 240
DB 181 FFGGMPKPAISLGGAMVRLPEPDQVWVGVGDYIGTASIKTDSFGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 10

AAAB49593

XX AAB49593 standard; Protein: 243 AA.

XX AAB49593;
XX 13-MAR-2001 (first entry)
XX Human adipocyte complement related protein homolog zs1939.
XX Human; zacrpf5; gene therapy; complement inhibition; C1q domain;

KM adipocyte complement related protein homolog;
KM inflammation; hormone secretion; inositol phosphate; arachidonate;
KM phospholipase C activation; gastric emptying; neutrophil activation;
KM superoxide anion production; antimicrobial; acute vascular injury;
wound healing; zsig39.

OS Homo sapiens.

PN MO200073444-A1.

XX 07-DEC-2000.

PF 18-MAY-2000; 2000MO-US13608.

PR 27-MAY-1999; 99US-0321372.

PA (ZYMO) ZYMOGENETICS INC.

PI Piddington CS, Shepard PO;

DR WPI; 2001-061531/07.

PT Novel adipocyte complement related protein homolog, ZACRP5, useful for
PT diagnosing and treating inflammation, vascular injury microbial
PT infections, and in wound healing

PS Disclosure; Fig 1; 121pp; English.

CC The present invention relates to human adipocyte complement related
CC protein homolog, ZACRP5 protein and coding sequence (see AAB49590 and
CC AAC90045). ZACRP5 has a carboxyl-terminal C1q domain. The ZACRP5 gene is
CC located on human chromosome 16. ZACRP5 gene and protein are useful for
CC diagnosing and treating inflammation, for determining arterial
CC remodeling, for modulating calcium ion concentration, hormone
CC secretion, DNA synthesis or cell growth. Inositol phosphate turnover,
CC arachidonate release, phospholipase C activation, gastric emptying, human
CC neutrophil activation or ADCC capability and superoxide anion production,
CC ZACRP5 gene and protein are also useful as antimicrobial applications,
CC preferably against bacteria and virus, for complement inhibition, human
CC treating acute vascular injury, and for wound healing. The present
CC sequence is human adipocyte complement related protein homolog, zsig39
CC protein. This protein was used in a sequence homology alignment with
CC ZACRP5 protein.

XX Sequence 243 AA;

SO Query Match 100.0%; Score 243; DB 22; Length 243;

Best Local Similarity 100.0%; Pred. No. 4.9e-212;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCGRHGLGTPGHHGSGGLPGRDRDGRDGAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCGRHGLGTPGHHGSGGLPGRDRDGRDGAAG 60
QY 61 ARGEKGGGRPGLPGRDGPGRGAGPAGTPGAGGCVPRPSAFSAKRSESRVPPSPD 120
DB 61 ARGEKGGGRPGLPGRDGPGRGAGPAGTPGAGGCVPRPSAFSAKRSESRVPPSPD 120
QY 121 APLEFDRLVLENGGHTDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVKNGESIASFFQ 180
DB 121 APLEFDRLVLENGGHTDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKRPASLSGAMVRLEPEDQVMVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
DB 181 FFGGMPKRPASLSGAMVRLEPEDQVMVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 11
AAB49599

ID AAB49599 standard; Protein; 243 AA.

XX AAB49599;

DE 13-MAR-2001 (first entry)

DE Human adipocyte complement related protein homolog zsig39.

KW Human; ZACRP6; gene therapy; complement inhibition; C1q domain;
KW adipocyte complement related protein homolog;

KW inflammation; hormone secretion; inositol phosphate; arachidonate;
KW phospholipase C activation; gastric emptying; neutrophil activation;
KM superoxide anion production; antimicrobial; acute vascular injury;
wound healing; zsig39.

OS Homo sapiens.

PN MO200073446-A2.

XX 07-DEC-2000.

PF 22-MAY-2000; 2000MO-US14024.

PR 27-MAY-1999; 99US-0321262.

PA (ZYMO) ZYMOGENETICS INC.

PI Piddington CS, Shepard PO;

DR WPI; 2001-061532/07.

PT Novel adipocyte complement related protein homolog, ZACRP6, useful as
PT modulators of neurotransmission and for treating disseminated
PT intravascular coagulation, arteriosclerosis and acute vascular injury

PS Disclosure; Fig 1; 119pp; English.

CC The present invention relates to human adipocyte complement related
CC protein homolog, ZACRP6 protein and coding sequence (see AAB49596 and
CC AAC90051). ZACRP6 has a carboxyl-terminal C1q domain. The ZACRP6 gene is
CC located on human chromosome 21q. ZACRP6 gene and protein are useful for
CC diagnosing and treating inflammation, for determining arterial
CC remodeling, for modulating calcium ion concentration, hormone
CC secretion, DNA synthesis or cell growth. Inositol phosphate turnover,
CC arachidonate release, phospholipase C activation, gastric emptying, human
CC neutrophil activation or ADCC capability and superoxide anion production,
CC ZACRP6 gene and protein are also useful as antimicrobial applications,
CC preferably against bacteria and virus, for complement inhibition, human
CC treating acute vascular injury, disseminated intravascular coagulation,
CC arteriosclerosis and for wound healing. The present sequence is human
CC adipocyte complement related protein homolog zsig39. This protein was
CC used in a sequence homology comparison with ZACRP6 protein.

XX Sequence 243 AA;

SO Query Match 100.0%; Score 243; DB 22; Length 243;

Best Local Similarity 100.0%; Pred. No. 4.9e-212;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCGRHGLGTPGHHGSGGLPGRDRDGRDGAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCGRHGLGTPGHHGSGGLPGRDRDGRDGAAG 60
QY 61 ARGEKGGGRPGLPGRDGPGRGAGPAGTPGAGGCVPRPSAFSAKRSESRVPPSPD 120
DB 61 ARGEKGGGRPGLPGRDGPGRGAGPAGTPGAGGCVPRPSAFSAKRSESRVPPSPD 120
QY 121 APLEFDRLVLENGGHTDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVKNGESIASFFQ 180
DB 121 APLEFDRLVLENGGHTDAVTGKFTCOVPGYVFAVHATVYRASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKRPASLSGAMVRLEPEDQVMVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240
DB 181 FFGGMPKRPASLSGAMVRLEPEDQVMVGVGDYIGIYASIKTSTSGFLVYSDMHSSP 240

Db 61 EAGPAGPTPAGCSVPPRSASFSAKRSERVPSPDAPLPEDRVLVNBOGCHDAVTGKFT 120
QY 145 CQVPGYVFAVHATYRASLOFLVKNESIASFFQFGGMPKPSLSGAMVRLPEPDQ 204
Db 121 CQVPGYVFAVHATYRASLOFLVKNESIASFFQFGGMPKPSLSGAMVRLPEPDQ 180
QY 205 VVWVGVDYIGIYASIKTSTFGSLVYSDMH 237
Db 181 VVWVGVDYIGIYASIKTSTFGSLVYSDMH 213

RESULT 14

AAB65888
ID AAB65888 standard; Protein: 243 AA.

AC AAB65888;

DT 28-MAR-2001 (first entry)

DE Human secreted protein related protein SEQ ID NO: 102.

OS Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
KW INTERCEPT 258; coronary disorder; olfactory disorder;
KW neurological disorder; pulmonary disorder; immunological disorder;
KW developmental disorder; kidney disorder.

XX Homo sapiens.

XX MO200078808-A1.

XX 28-DEC-2000.

XX 19-JUN-2000; 2000MO-US16883.

XX 18-JUN-1999; 99US-0336536.

XX (MILL-) MILLENNIUM PHARM INC.

XX PI Leiby KR, McKay C, Bossone S;

XX WPI: 2001-050109/06.

XX New nucleic acids for treating diseases and disorders, e.g.

XX atherosclerosis, infection, autoimmune diseases, obesity, ear

XX disorders, brain disorders, tumors, diabetes, arthritis, multiple

XX sclerosis and asthma.

XX Disclosure: Page 270-271; 332pp; English.

XX The present invention provides the protein and coding sequences of the

XX human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,

XX TANGO 281 and INTERCEPT 258. These are useful in the treatment of

XX coronary, pulmonary, olfactory, immunological, neurological,

XX developmental and kidney disorders.

XX Sequence 243 AA;

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QY 239 SPVFA 243
Db 239 SPVFA 243

RESULT 15

AAB65891
ID AAB65891 standard; Protein: 243 AA.

AC AAB65891;

DT 28-MAR-2001 (first entry)

DE Human secreted protein related protein SEQ ID NO: 108.

OS Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;
KW INTERCEPT 258; coronary disorder; olfactory disorder;
KW neurological disorder; pulmonary disorder; immunological disorder;
KW developmental disorder; kidney disorder.

XX Homo sapiens.

XX MO200078808-A1.

XX 28-DEC-2000.

XX 19-JUN-2000; 2000MO-US16883.

XX 18-JUN-1999; 99US-0336536.

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XX WPI: 2001-050109/06.

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XX disorders, brain disorders, tumors, diabetes, arthritis, multiple

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XX Disclosure: Page 274; 332pp; English.

XX The present invention provides the protein and coding sequences of the

XX human and murine secreted or transmembrane proteins TANGO 253, TANGO 257,

XX TANGO 281 and INTERCEPT 258. These are useful in the treatment of

XX coronary, pulmonary, olfactory, immunological, neurological,

XX developmental and kidney disorders.

XX Sequence 243 AA;

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Search completed: June 18, 2003, 15:03:51
Job time : 77 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 18, 2003, 15:01:43 ; Search time 40 Seconds

(without alignments)
584.017 Million cell updates/sec

Title: US-09-943-851A-42

Perfect score: 243
Sequence: 1 MRPLVLLGLAGSPPLD.....DSTFGFLVYSDMHSSPVFA 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 283224 seqs, 96134422 residues

Word size : 0

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

1: PIR1:*
2: PIR2:*
3: PIR3:*
4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	219	90.1	219	T14782	hypothetical prote
2	11	4.5	289	T34241	hypothetical prote
3	11	4.5	369	S33603	surfactant protein
4	11	4.5	374	A42046	surfactant protein
5	11	4.5	375	A45225	pulmonary surfacta
6	11	4.5	1670	CGH038	pulmonary surfacta
7	11	4.5	2944	A54849	collagen alpha 3(I
8	10	4.1	210	B43984	collagen alpha 1(V
9	10	4.1	247	LNHUP6	collagen - nematod
10	10	4.1	248	LNHUP6	pulmonary surfacta
11	10	4.1	248	LNHUP1	pulmonary surfacta
12	10	4.1	248	LNHUP1	pulmonary surfacta
13	10	4.1	248	LNHUP1	pulmonary surfacta
14	10	4.1	248	LNHUP1	pulmonary surfacta
15	10	4.1	248	LNHUP1	pulmonary surfacta
16	10	4.1	248	LNHUP1	pulmonary surfacta
17	10	4.1	248	LNHUP1	pulmonary surfacta
18	10	4.1	248	LNHUP1	pulmonary surfacta
19	10	4.1	248	LNHUP1	pulmonary surfacta
20	10	4.1	248	LNHUP1	pulmonary surfacta
21	10	4.1	248	LNHUP1	pulmonary surfacta
22	10	4.1	248	LNHUP1	pulmonary surfacta
23	10	4.1	248	LNHUP1	pulmonary surfacta
24	10	4.1	248	LNHUP1	pulmonary surfacta
25	10	4.1	248	LNHUP1	pulmonary surfacta
26	10	4.1	248	LNHUP1	pulmonary surfacta
27	10	4.1	248	LNHUP1	pulmonary surfacta
28	10	4.1	248	LNHUP1	pulmonary surfacta
29	10	4.1	248	LNHUP1	pulmonary surfacta

30	9	3.7	636	2	S41067	collagen alpha 1(I
31	9	3.7	751	2	A49974	beta-amyloid precu
32	9	3.7	765	2	S42880	amyloid precursor-
33	9	3.7	964	1	CGCH2S	collagen alpha 2(I
34	9	3.7	1402	2	I46707	translation initia
35	9	3.7	1669	1	CGMS4B	collagen alpha 1(I
36	9	3.7	1752	1	A43407	collagen alpha 3(I
37	9	3.7	2288	2	T29999	collagen alpha 1(I
38	8	3.3	46	2	I65268	hypothetical prote
39	8	3.3	52	2	C83241	hypothetical prote
40	8	3.3	87	2	H31482	hypothetical prote
41	8	3.3	149	2	B82017	probable integral
42	8	3.3	149	2	B81002	conserved hypothet
43	8	3.3	164	2	S76920	hypothetical prote
44	8	3.3	170	2	S74248	antibacterial pept
45	8	3.3	170	2	I38932	CAP18 precursor -

ALIGNMENTS

RESULT 1

T14782 hypothetical protein DKFZ586B0621.1 - human (fragment)

C:Species: Homo sapiens (man)

C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 02-Sep-2000

C:Accession: T14782

R:Ottewaalder, B.; Oberwalder, B.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.

submitted to the Protein Sequence Database, August 1999

A:Reference number: T14782

A:Accession: T14782

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-219 <OTT>

A:Cross-references: EMBL:AL110261

A:Experimental source: adult uterus; clone DKFZ586B0621

C:Genetics:

A:Note: DKFZ586B0621.1

C:superfamily: complement C1q carboxyl-terminal homology

Query Match

Best Local Similarity 90.1% Score 219; DB 2; Length 219;

Matches 219; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

25 PSLCPGHPGLPRTGPHGSGGLPGRDSDGDRGAPGAGGEGGGRGLPGRGDPGRG 84

DB 1 PSLCPGHPGLPRTGPHGSGGLPGRDSDGDRGAPGAGGEGGGRGLPGRGDPGRG 60

QY 85 EAGPAGPRTGPGAGGEGGGRGSAKRSERVPSPDAPLPFDRLVNEQGHYDAVTGKFT 144

DB 61 EAGPAGPRTGPGAGGEGGGRGSAKRSERVPSPDAPLPFDRLVNEQGHYDAVTGKFT 120

QY 145 CQVGVVYFAVHATVYRASLOFOLVKKGESIASFPQFGGMPKPAASLGAMVRLPEPQ 204

DB 121 CQVGVVYFAVHATVYRASLOFOLVKKGESIASFPQFGGMPKPAASLGAMVRLPEPQ 180

QY 205 VMVQVGVGDYIGIYASIKTSTFGSLVYSDMHSSPVFA 243

DB 181 VMVQVGVGDYIGIYASIKTSTFGSLVYSDMHSSPVFA 219

RESULT 2

T34241 hypothetical protein F26F12.1 - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C>Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 21-Jan-2000

R:Wilson, R.; Bentley, D.; Gattung, S.

submitted to the EMBL Data Library, April 1996

A:Description: The sequence of C. elegans cosmid F26F12.

A:Reference number: Z21493

A:Accession: T34241

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA
 A:Residues: 1-289 <MIL>
 A:Cross-references: EMBL:U55373; PIDN:AGC25888.1; GSPDB:GM00023; CESP:F26F12.1
 A:Experimental source: strain Bristol N2; clone F26F12
 C:Genetics:
 A:Gene: CESP:F26F12.1
 A:Map position: 5
 A:Introns: 45/3
 C:Superfamily: unassigned collagens

Query Match 4.5%; Score 11; DB 2; Length 289;
 Best Local Similarity 100.0%; Pred. No. 0.016;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 80 PGPGRGAGPAG 90
 Db 222 PGPGRGAGPAG 232

RESULT 3

surfactant protein D - bovine
 C:Species: Bos primigenius taurus (cattle)
 C>Date: 02-Dec-1993 #sequence-revision 01-Sep-1995 #text-change 17-Mar-1999
 C:Accession: S33603
 R:Lim, B.L.; Lu, J.; Reid, K.B.M.
 Immunology 78, 159-165, 1993
 A:Title: Structural similarity between bovine conglutinin and bovine lung surfactant protein D
 A:Reference number: S33603; MUID:93170856; PMID:8436402
 A:Accession: S33603
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-369 <LIM>
 C:Superfamily: pulmonary surfactant protein D; C-type lectin homology
 F:248-367/Domain: C-type lectin homology <LCH>

Query Match 4.5%; Score 11; DB 2; Length 369;
 Best Local Similarity 100.0%; Pred. No. 0.02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRGDRGR 55
 Db 46 GLPGRGDRGR 56

RESULT 4

surfactant protein D - rat
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 10-Sep-1999 #sequence-revision 10-Sep-1999 #text-change 10-Sep-1999
 C:Accession: A42046
 R:Shimizu, H.; Fisher, J.H.; Papst, P.; Benson, B.; Lau, K.; Mason, R.J.; Voelker, D.R.
 J. Biol. Chem. 267, 1853-1857, 1992
 A:Title: Primary structure of rat pulmonary surfactant protein D. cDNA and deduced amino acid sequence
 A:Reference number: A42046; MUID:93112913; PMID:1370483
 A:Accession: A42046
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-374 <SHI>
 A:Cross-references: PIDN:AA42170.1; PID:9207036
 A:Experimental source: lung
 A:Note: sequence extracted from NCBI backbone (NCBI:76027, NCBI:76031)
 C:Superfamily: pulmonary surfactant protein D; C-type lectin homology
 F:253-372/Domain: C-type lectin homology <LCH>

Query Match 4.5%; Score 11; DB 1; Length 374;
 Best Local Similarity 100.0%; Pred. No. 0.02;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRGDRGR 55
 Db 45 GLPGRGDRGR 55

RESULT 5

pulmonary surfactant protein D precursor - human
 A:Accession: A45225
 N:Alternate names: SP-D
 C:Species: Homo sapiens (man)
 C>Date: 16-Apr-1999 #sequence-revision 16-Apr-1999 #text-change 22-Jun-1999
 C:Accession: A45225; S23434; S24555; S44420; S18382; A56776
 R:Crouch, E.; Rust, K.; Velle, R.; Donis-Keller, H.; Grosso, L.
 J. Biol. Chem. 268, 2976-2983, 1993
 A:Title: Genomic organization of human surfactant protein D (SP-D). SP-D is encoded on chromosome 10
 A:Reference number: A45225; MUID:93155122; PMID:8428971
 A:Accession: A45225
 A:Molecule type: DNA
 A:Residues: 1-375 <CRO>
 A:Cross-references: GB:L05483; GB:L05484; GB:L05485; NID:9292505; PIDN:AAB59450.1; PI
 A:Experimental source: placenta
 A:Note: sequence extracted from NCBI backbone (NCBI:124316)
 R:Lu, J.; Willis, A.C.; Reid, K.B.M.
 Biochem. J. 284, 795-802, 1992
 A:Title: Purification, characterization and cDNA cloning of human lung surfactant protein D
 A:Reference number: S23434; MUID:92322003; PMID:1339284
 A:Accession: S23434
 A:Molecule type: mRNA
 A:Residues: 1-30, 'T', '32-121', 'P', '123-179', 'A', '181-375' <LUJ1>
 A:Cross-references: EMBL:X65018; NID:934766; PIDN:CAA46152.1; PID:934767
 A:Experimental source: lung
 A:Accession: S24555
 A:Molecule type: protein
 A:Residues: 214-234, 'X', '236', 'XX', '239-241' <LUJ2>
 R:Hoppe, H.J.; Barlow, P.N.; Reid, K.B.M.
 FEBS Lett. 344, 191-195, 1994
 A:Title: A parallel three stranded alpha-helical bundle at the nucleation site of col
 A:Reference number: S44420; MUID:94244769; PMID:8187882
 A:Accession: S44420
 A:Molecule type: mRNA
 A:Residues: 202-257 <HOP>
 R:Rust, K.; Grosso, L.; Zhang, V.; Chang, D.; Persson, A.; Longmore, W.; Cal, G.Z.; C
 Arch. Biochem. Biophys. 290, 116-126, 1991
 A:Title: Human surfactant protein D: SP-D contains a C-type lectin carbohydrate recog
 A:Reference number: S18382; MUID:91378578; PMID:1898081
 A:Accession: S18382
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 'F', '60-205', 'P', '207-374', 'HF', <RUS>
 A:Cross-references: GB:L05485; NID:9292505
 A:Note: corrections to this sequence are reported in reference A56776
 R:Crouch, E.; Persson, A.; Chang, D.
 Am. J. Pathol. 142, 241-248, 1993
 A:Title: Accumulation of surfactant protein D in human pulmonary alveolar proteinosis
 A:Reference number: A56776; MUID:93142849; PMID:8424457
 A:Accession: A56776
 A:Status: preliminary
 A:Molecule type: protein
 A:Residues: 46-58, 'F', '60-62', 'E', '64-72', '223-227', 'X', '229-239', 'P', '241-245', 'X', '247-256', 'X'
 A:Cross-references: PIDN:AA425037.1; PID:9263973; PIDN:AAB25038.1; PID:9263974
 A:Experimental source: bronchoalveolar lavage
 A:Note: sequence extracted from NCBI backbone (NCBI:123024, NCBI:123023); sequence
 C:Comment: Pulmonary surfactant is a complex of phospholipids and proteins that lower
 surface tension. This protein is synthesized by alveolar type II cells.
 A:Gene: GDB:SF7PD; SF7PD; SP-D
 A:Cross-references: GDB:132674; OMIM:178635
 A:Map position: 10q22.2-10q23.1
 C:Superfamily: pulmonary surfactant protein D; C-type lectin homology
 C:Keywords: blocked amino end; calcium; glycoprotein; hydroxylysine; hydroxyproline;
 F:1-10/Domain: signal sequence #status predicted <SIG>
 F:21-375/Product: pulmonary surfactant protein D #status predicted <MAT>
 F:21-45/Domain: non-collagenous #status predicted <NC1>
 F:46-222/Domain: non-collagenous #status predicted <COL>
 F:223-375/Domain: non-collagenous #status predicted <COL>
 F:254-373/Domain: C-type lectin homology <LCH>
 F:90/Binding site: carbohydrate (asn) (covalent) #status predicted

F:201-373.351-365/Disulfide bonds: #status predicted

Query Match 4.5% Score 11: DB 1: Length 375;

Best Local Similarity 100.0%; Pred. No. 0.021;

Matches 11: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGDRDGR 55

Db 46 GLPGRDGDRDGR 56

RESULT 6

CGNU3B collagen alpha 3(IV) chain precursor, long splice form - human

N:Alternate names: Goodpasture antigen; procollagen alpha 3(IV) chain long splice form

C:Species: Homo sapiens (man)

C:Date: 28-Oct-1994 #sequence, revision 03-Oct-1999 #text_change 22-Jun-1999

C:Accession: A54763; #sequence, revision 03-Oct-1999 #text_change 22-Jun-1999

R:Matryama, M.; Leinonen, A.; Mochizuki, T.; Tryggvason, K.; Reiders, S.T.

J. Biol. Chem. 269, 23013-23017, 1994

A:Title: Complete primary structure of the human alpha3(IV) collagen chain. Coexpression

A:Reference number: A54763; PMID:94364994; PMID:8083201

A:Accession: A54763

A:Molecule type: mRNA

A:Residues: 1-1670 <MAR>

A:Cross-references: GB:X80031; NID:9577563; PID:9577564

A:Experimental source: Kidney

R:Turner, N.; Mason, P.J.; Brown, R.; Fox, M.; Povey, S.; Rees, A.; Pusey, C.D.

J. Clin. Invest. 89, 592-601, 1992

A:Title: Molecular cloning of the human Goodpasture antigen demonstrates it to be the al

A:Reference number: A43928; PMID:92147878; PMID:1737849

A:Accession: A43928

A:Molecule type: mRNA

A:Residues: 1331-1524, '1, 1526-1670 <TUR>

A:Cross-references: GB:M1379

A:Experimental source: Kidney

R:Quinones, S.; Bernal, D.; Garcia-Sogo, M.; Elena, S.F.; Saus, J.

J. Biol. Chem. 267, 19780-19784, 1992

A:Title: Exon/intron structure of the human alpha 3(IV) gene encompassing the Goodpastur

A:Reference number: A44043; PMID:93015826; PMID:1400291

A:Accession: A44043

A:Molecule type: DNA; mRNA

A:Residues: 1386-1670 <QUT>

A:Cross-references: GB:M92993; NID:9177895; PIDN:AAA21610.1; PID:9177896

R:Quinones, S.; Bernal, D.; Garcia-Sogo, M.; Elena, S.F.; Saus, J.

J. Biol. Chem. 269, 17358, 1994

A:Reference number: A44738; PMID:94274734; PMID:8006044

A:Contents: annotation; erratum; correction to Intronic sequence in A44043

R:Bernal, D.; Quinones, S.; Saus, J.

A:Map position: 2q36-2q37

A:Introns: 1385/1; 1418/1; 1488/1; 1547/2; 1585/3; 1633/2 #status incomplete

C:Complex: This minor type IV collagen is thought to form a heterotrimer of two alpha

monomer amino-terminal domains (with disulfide and desmosine cross-links), dimer

er associations in the interrupted helical domain (with disulfide and desmosine cross

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R:Gannon, W.R.; Abernethy, M.L.; Padilla, K.M.; Prisaanah, P.S.; Cook, M.E.; Wright, J.
 J. Invest. Dermatol. 99, 691-696, 1992
 A:Title: Noncollagenous (NC1) domain of collagen VII resembles multidomain adhesion prot
 A:Reference number: 156328; MUID:93107742; PMID:1469284
 A:Accession: 156328
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 'EPF', 372-517, 'DV', 520-540, 'W', 542-1255 <RES>
 A:Cross-references: GB:551235; NID:9262308; PIDN:AA624637.1; PID:9262309
 R:Seitzer, J.L.; Eisen, A.Z.; Bauer, E.A.; Morris, N.P.; Glanville, R.W.; Burgeson, R.E.
 J. Biol. Chem. 264, 3822-3826, 1989
 A:Title: Cleavage of type VII collagen by interstitial collagenase and type IV collagen
 A:Reference number: A20296; MUID:89139437; PMID:2537292
 A:Accession: A20296
 A:Molecule type: protein
 A:Residues: A, 1240-1246, 'G', 1248-1250, 'XE', 1253-1255, 'Q', 1257, 'E', 2032, 'C', 2034-2041,
 A:Note: Two reported peptides cannot be reliably located
 R:Greenpan, D.S.
 Hum. Mol. Genet. 2, 273-278, 1993
 A:Title: The carboxyl-terminal half of type VII collagen, including the non-collagenous
 A:Reference number: 148103; MUID:93271985; PMID:8499916
 A:Accession: 148103
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 2395-2871, 'S', 2873-2944 <RE2>
 A:Cross-references: GB:106862; NID:9388713; PIDN:AA89196.1; PID:9388714
 R:Christiano, A.M.; Rymaszewski, M.; Uitto, J.
 Proc. Natl. Acad. Sci. U.S.A. 91, 3549-3553, 1994
 A:Title: Dominant dystrophic epidermolysis bullosa: identification of a Gly --> Ser subs
 A:Reference number: A55255; MUID:94224777; PMID:8170945
 A:Accession: A55255
 A:Contents: annotation
 C:Comment: prolines and lysines at the third position of the tripeptide repeating unit
 C:Comment: and subsequently O-glycosylated.
 C:Genetics:
 A:Gene: GDB:COL7A1; EBR1; EBD1; EB
 A:Cross-references: GDB:128750; OMIM:120120
 A:Map position: 3p21.3-3p21.3
 A:Note: defects in this gene can result in dominant and recessive dystrophic epidermolys
 A:Note: there are 118 introns
 C:Complex: type VII collagen is probably a homotrimer
 C:Function:
 A:Description: structural component of extracellular polymer associated with anchoring
 C:Superfamily: unassigned collagens; animal knittz-type proteinase inhibitor homology;
 C:Keywords: collated coil; extracellular matrix; glycoprotein; hydroxyllysine; hydroxyproli
 F:1-16/Domain: signal sequence #status predicted <SIG>
 F:17-2944/Product: collagen alpha 1(VII) chain #status predicted <MAT>
 F:17-1253/Domain: amino-terminal nonhelical #status predicted <NC1>
 F:17-1253/Domain: amino-terminal nonhelical #status predicted <NC1>
 F:36-201/Domain: von Willibrand factor type A repeat homology <VMA1>
 F:327-413/Domain: fibronectin type III repeat homology <FN1>
 F:414-502/Domain: fibronectin type III repeat homology <FN2>
 F:508-593/Domain: fibronectin type III repeat homology <FN3>
 F:598-683/Domain: fibronectin type III repeat homology <FN4>
 F:686-771/Domain: fibronectin type III repeat homology <FN5>
 F:776-862/Domain: fibronectin type III repeat homology <FN6>
 F:864-952/Domain: fibronectin type III repeat homology <FN7>
 F:954-1045/Domain: fibronectin type III repeat homology <FN8>
 F:1052-1119/Domain: von Willibrand factor type A repeat homology <VMA2>
 F:1170-1172/Domain: von Willibrand factor type A repeat homology <VMA2>
 F:1189-1253/Region: cell attachment (R-G-D) motif
 F:1254-2783/Region: cysteine/proline-rich
 F:1334-1336/Region: interrupted helical
 F:2008-2010/Region: cell attachment (R-G-D) motif
 F:2553-2555/Region: cell attachment (R-G-D) motif
 F:2784-2944/Domain: carboxyl-terminal nonhelical #status predicted <NC2>
 F:2876-2929/Domain: animal knittz-type proteinase inhibitor homology <BTR>
 F:337-786,1109/Binding site: carbohydrate (Asn) (covalent) #status predicted
 F:2167,2176,2188,2664,2667,2673/Modified site: 4-hydroxyproline (Pro) #status exp
 F:2623,2631/Modified site: 5-hydroxylysine (Lys) (covalent) #status experimental
 F:2623,2631/Binding site: carbohydrate (Lys) (covalent) #status experimental
 F:2634,2802,2804/Disulfide Bonds: Interchain #status predicted

Query Match 4.5% Score 11; DB 2; Length 2944;

Best Local Similarity 100.0%; Pred. No. 0.12;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 71 GGLPGPRGDPG 81
 DB 1328 GGLPGPRGDPG 1338

RESULT 8
 B44984
 collagen - nematode (Haemonchus contortus) (fragment)
 C:Species: Haemonchus contortus
 C:Date: 28-Apr-1993 #sequence_revision 28-Apr-1993 #text_change 07-May-1999
 C:Accession: B44984
 R:Shamsky, L.M.; Pratt, D.; Bolsvenne, R.J.; Cox, G.N.
 Mol. Biochem. Parasitol. 37, 73-86, 1989
 A:Title: Cuticle collagen genes of Haemonchus contortus and Caenorhabditis elegans ar
 A:Reference number: A44984; MUID:90136718; PMID:2615789
 A:Accession: B44984
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-210 <SHA>
 A:Cross-references: GB:J04671; GB:J04670
 C:Superfamily: unassigned collagens

Query Match 4.1% Score 10; DB 2; Length 210;
 Best Local Similarity 100.0%; Pred. No. 0.11;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 57 GARGPGERG 66
 DB 151 GARGPGERG 160

RESULT 9
 LNRBPS
 pulmonary surfactant protein A precursor - rabbit
 N:Alternative names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associat
 C:Species: Oryctolagus cuniculus (domestic rabbit)
 C:Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999
 C:Accession: A29931
 R:Bogaram, V.; Qing, K.; Mendelson, C.R.
 J. Biol. Chem. 263, 2939-2947, 1988
 A:Title: The major apoprotein of rabbit pulmonary surfactant. Elucidation of primary
 A:Reference number: A29931; MUID:88139348; PMID:2830270
 A:Accession: A29931
 A:Molecule type: mRNA
 A:Residues: 1-247 <BOG>
 A:Cross-references: GB:J03542; NID:9165705; PIDN:AA31465.1; PID:9165706
 A:Note: 12-Pro was also found
 A:Note: two species of mRNA, which appear to be transcribed from a single gene, could
 A:Note: the amino end of the mature protein is blocked
 C:Comment: pulmonary surfactant is a complex of phospholipids and proteins that lower
 C:Comment: This protein is a sialoglycoprotein synthesized by alveolar type II cells.
 C:Superfamily: mannose-binding lectin; C-type lectin homology
 C:Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; gl
 F:1-15/Domain: signal sequence #status predicted <SIG>
 F:16-247/Product: pulmonary surfactant protein A #status predicted <MAT>
 F:27-99/Region: collagen-like
 F:126-245/Domain: C-type lectin homology <LCH>
 F:16/Modified site: acetylated amino end (Ser) (in mature form) #status predicted
 F:206/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 4.1% Score 10; DB 1; Length 247;
 Best Local Similarity 100.0%; Pred. No. 0.13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 45 GLEPRGRDGD 54
 DB 39 GLEPRGRDGD 48

RESULT 10

LNHUP6

pulmonary surfactant protein A precursor (clone 6A) - human

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Homo sapiens (man)

C:Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C:Accession: A25720

R:Floros, J.; Steinhilber, R.; Jacobs, K.; Phelps, D.; Kriz, R.; Recny, M.; Soltzman, L.;

J. Biol. Chem. 261, 9029-9033, 1986

A:Title: Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfactant

A:Reference number: A25720; MUID:86250832; PMID:3755136

A:Accession: A25720

A:Molecule type: mRNA

A:Residues: 1-248 <PRO>

A:Cross-references: GB:M13686; NID:9190669; PID:AAA60211.1; PID:9190670

A:Note: part of the sequence was confirmed by protein sequencing

A:Note: the amino end of the mature protein, which was not identified, is partially acet

A:Note: clones corresponding to two different proteins were sequenced. Cotranslational m

C:GeneID: 85781; SFTPA1; SP-A; SP-A1

A:Cross-references: GDB:119593; OMIM:178630

A:Map position: 10q22-10q23

C:Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; glyco

F:1-20/Domain: signal sequence #status predicted <SIG>

F:127-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F:21-246/Domain: C-type lectin homology <LCH>

F:30,33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status pred

F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 4.1%; Score 10; DB 1; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDG 54

DB 40 GLPGRDGRDG 49

|||||

RESULT 11

LNHUP1

pulmonary surfactant protein A precursor (clone 1A) - human

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Homo sapiens (man)

C:Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C:Accession: B25720

R:Floros, J.; Steinhilber, R.; Jacobs, K.; Phelps, D.; Kriz, R.; Recny, M.; Soltzman, L.;

J. Biol. Chem. 261, 9029-9033, 1986

A:Title: Isolation and characterization of cDNA clones for the 35-kDa pulmonary surfact

A:Reference number: A25720; MUID:86250832; PMID:3755136

A:Accession: B25720

A:Molecule type: mRNA

A:Residues: 1-248 <PRO>

A:Cross-references: GB:K03475

A:Note: part of the sequence was confirmed by protein sequencing

A:Note: the amino end of the mature protein, which was not identified, is partially acet

A:Note: clones corresponding to two different proteins were sequenced. Cotranslational m

C:GeneID: 85781; SFTPA1; SP-A; SP-A1

A:Cross-references: GDB:119593; OMIM:178630

A:Map position: 10q22-10q23

C:Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: acetylated amino end; alveolar proteinosis; calcium; gaseous exchange; glyco

F:1-20/Domain: signal sequence #status predicted <SIG>

F:127-248/Product: pulmonary surfactant protein A #status predicted <MAT>

F:21-246/Domain: C-type lectin homology <LCH>

F:30,33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status pred

F:207/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 4.1%; Score 10; DB 1; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDG 54

DB 40 GLPGRDGRDG 49

|||||

RESULT 12

LNDGFS

pulmonary surfactant protein A precursor - dog

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Canis lupus familiaris (dog)

C:Date: 30-Sep-1987 #sequence_revision 30-Sep-1987 #text_change 16-Jul-1999

C:Accession: A25296; A61227; A60142

R:Benson, B.; Hawgood, S.; Schilling, J.; Clements, J.; Damm, D.; Cordell, B.; White,

Proc. Natl. Acad. Sci. U.S.A. 82, 6379-6383, 1985

A:Title: Structure of canine pulmonary surfactant apoprotein: cDNA and complete amino

A:Reference number: A25296; MUID:86016705; PMID:3863100

A:Accession: A25296

A:Molecule type: mRNA

A:Residues: 1-248 <BEN>

A:Note: the authors translated the codon TTC for residue 60 as Pro

A:Note: part of the sequence, including the amino end of the mature protein, was conf

R:Liou, D.F.; Ryan, S.F.

Chem. Phys. Lipids 59, 29-38, 1991

A:Title: Purification of surfactant protein A from dog lung by reconstitution with su

A:Reference number: A61227; MUID:92163993; PMID:1190579

A:Accession: A61227

A:Molecule type: protein

A:Residues: 18-32 <LIA>

R:Ross, G.F.; Meuth, J.; Ohlring, B.; Kim, Y.; Whitsett, J.A.

Biochim. Biophys. Acta 870, 267-278, 1986

A:Title: Purification of canine surfactant-associated glycoproteins A. Identification

A:Reference number: A60142; MUID:86159848; PMID:3006781

A:Accession: A60142

A:Molecule type: protein

A:Residues: 24-34;95-101,'X',103-108 <ROS>

R:Patthy, L.

Nature 325, 490, 1987

A:Reference number: A93388; MUID:87115834; PMID:3808053

A:Contents: annotation: animal lectin domain homology

C:Comment: This protein is a complex of phospholipids and proteins that lower

pendent on the presence of calcium ions.

C:Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: alveolar proteinosis; calcium; disulfide bond; gaseous exchange; hydroxyp

F:1-17/Domain: signal sequence #status predicted <SIG>

F:18-248/Product: pulmonary surfactant protein A #status experimental <MPT>

F:28-102/Region: collagen-like

F:127-246/Domain: C-type lectin homology <LCH>

F:20,207/Binding site: carbohydrate (Asn) (covalent) #status predicted

F:30,33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status experimental

Query Match 4.1%; Score 10; DB 1; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDG 54

DB 40 GLPGRDGRDG 49

|||||

RESULT 13

LNHUP5

pulmonary surfactant protein A precursor - rat

N:Alternate names: pulmonary surfactant 32k apoprotein; pulmonary surfactant-associated

C:Species: Rattus norvegicus (Norway rat)

C:Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 16-Jul-1999

C:Accession: A29299; J50034; S23183

R:Sano, K.; Fisher, J.; Mason, R.J.; Kuiohi, Y.; Schilling, J.; Benson, B.; Voelker,

Biochem. Biophys. Res. Commun. 144, 367-374, 1987

A:Title: Isolation and sequence of a cDNA clone for the rat pulmonary surfactant-asso

A:Reference number: A29299; MUID:87213191; PMID:3579914

A:Accession: A29299

A:Molecule type: mRNA

A:Residues: 1-248 <BEN>

A:Note: the authors translated the codon TTC for residue 60 as Pro

A:Note: part of the sequence, including the amino end of the mature protein, was conf

R:Liou, D.F.; Ryan, S.F.

Chem. Phys. Lipids 59, 29-38, 1991

A:Title: Purification of surfactant protein A from dog lung by reconstitution with su

A:Reference number: A61227; MUID:92163993; PMID:1190579

A:Accession: A61227

A:Molecule type: protein

A:Residues: 18-32 <LIA>

R:Ross, G.F.; Meuth, J.; Ohlring, B.; Kim, Y.; Whitsett, J.A.

Biochim. Biophys. Acta 870, 267-278, 1986

A:Title: Purification of canine surfactant-associated glycoproteins A. Identification

A:Reference number: A60142; MUID:86159848; PMID:3006781

A:Accession: A60142

A:Molecule type: protein

A:Residues: 24-34;95-101,'X',103-108 <ROS>

R:Patthy, L.

Nature 325, 490, 1987

A:Reference number: A93388; MUID:87115834; PMID:3808053

A:Contents: annotation: animal lectin domain homology

C:Comment: This protein is a complex of phospholipids and proteins that lower

pendent on the presence of calcium ions.

C:Superfamily: mannose-binding lectin; C-type lectin homology

C:Keywords: alveolar proteinosis; calcium; disulfide bond; gaseous exchange; hydroxyp

F:1-17/Domain: signal sequence #status predicted <SIG>

F:18-248/Product: pulmonary surfactant protein A #status experimental <MPT>

F:28-102/Region: collagen-like

F:127-246/Domain: C-type lectin homology <LCH>

F:20,207/Binding site: carbohydrate (Asn) (covalent) #status predicted

F:30,33,36,42,54,57,63,76,79,82,91,97/Modified site: 4-hydroxyproline (Pro) #status experimental

Query Match 4.1%; Score 10; DB 1; Length 248;

Best Local Similarity 100.0%; Pred. No. 0.13;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GLPGRDGRDG 54

DB 40 GLPGRDGRDG 49

|||||

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 18, 2003, 14:59:55 ; Search time 81 seconds

(without alignments)
618.141 Million cell updates/sec

Title: US-09-943-851A-42

Sequence: 1 MRPLVLLLLGLAGSPPLD.....DSTFGFLVYSMDHSSPEVFA 243

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 671580 seqs, 206047115 residues

Word size : 0

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

1: SP archaea: *
2: SP bacteria: *
3: SP fungi: *
4: SP human: *
5: SP invertebrate: *
6: SP mammal: *
7: SP mhc: *
8: SP organelle: *
9: SP phage: *
10: SP plant: *
11: SP rodent: *
12: SP virus: *
13: SP vertebrate: *
14: SP unclassified: *
15: SP viirus: *
16: SP bacteriophage: *
17: SP archaea: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	25.5	243	11	08R002
2	11	4.5	27	4	09UCJ3
3	11	4.5	289	5	019813
4	11	4.5	306	2	09ACN2
5	11	4.5	375	4	08TCD8
6	11	4.5	378	6	09NIX4
7	10	4.1	57	6	002842
8	10	4.1	238	13	057451
9	10	4.1	248	13	091907
10	10	4.1	248	6	09TT06
11	10	4.1	248	6	09N0G1
12	10	4.1	248	6	09SL88
13	10	4.1	248	11	09COI1
14	10	4.1	254	13	098TA4
15	10	4.1	256	13	091909
16	10	4.1	282	5	08WP36

17	10	4.1	358	12	09J304	09J304 ectocarpus
18	10	4.1	447	12	09YTJ3	09YTJ3 atelline her
19	10	4.1	694	10	097T45	097T45 streptococ
20	10	4.1	812	5	006452	006452 ephydactia m
21	10	4.1	1761	5	018407	018407 dirosophila
22	10	4.1	1940	5	09YMW5	09YMW5 dirosophila
23	9	3.7	182	11	09CY54	09CY54 mus musculu
24	9	3.7	260	4	09DHG2	09DHG2 mus saplen
25	9	3.7	260	11	09QXU9	09QXU9 ratius norv
26	9	3.7	441	13	09OYI9	09OYI9 brachydanio
27	9	3.7	567	10	09SMQ3	09SMQ3 artemia m
28	9	3.7	589	16	09AK64	09AK64 streptomyc
29	9	3.7	684	5	P90679	P90679 areticolia m
30	9	3.7	695	11	064348	064348 mus musculu
31	9	3.7	751	11	060709	060709 mus musculu
32	9	3.7	763	11	061482	061482 mus musculu
33	9	3.7	1752	5	007265	007265 strongyloce
34	9	3.7	2288	5	023081	023081 caenorhabd
35	9	3.7	2315	5	095ZK3	095ZK3 caenorhabd
36	8	3.3	46	11	063074	063074 ratius norv
37	8	3.3	52	16	09H209	09H209 pseudomonas
38	8	3.3	87	2	045313	045313 bacillus me
39	8	3.3	107	4	09BOY7	09BOY7 homo saplen
40	8	3.3	109	11	09CVJ2	09CVJ2 mus musculu
41	8	3.3	111	16	09RD99	09RD99 streptomyc
42	8	3.3	149	16	09JXB1	09JXB1 neisseria m
43	8	3.3	149	16	09JWV2	09JWV2 neisseria m
44	8	3.3	1747	16	P74713	P74713 synchocyst
45	8	3.3	170	6	09GLV5	09GLV5 macaca mula

ALIGNMENTS

RESULT 1

08R002 ID 08R002 PRELIMINARY; PRT: 243 AA.
AC 08R002;
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Similar to DKFZ586B0621 protein (hypothetical 25.4 kDa protein).
OS Mus musculus (Mouse).
CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (FEB-2002) to the EMBL/Genbank/DBJ databases.
[2]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/Genbank/DBJ databases.
DR EMBL: BC025174; AAH25174.1; -;
KW Hypothetical protein.
SQ SEQUENCE 243 AA; 25420 MW; 498129CD051DB97B CRC64;

Query Match 25.5%; Score 62; DB 11; Length 243;
Best Local Similarity 100.0%; Pred. No. 4; De-52;
Matches 62; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 182 FCGWKPASLSGAGAVRLPEPDQYVGVGVGYIGIYASIKTDSFSGFLVYSMDHSSPV 241
DB 182 FCGWKPASLSGAGAVRLPEPDQYVGVGVGYIGIYASIKTDSFSGFLVYSMDHSSPV 241
QY 242 FA 243
DB 242 FA 243

RESULT 2

09UCJ3
ID 09UCJ3 PRELIMINARY; PRT; 27 AA.
AC 09UCJ3;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DE 01-JUN-2001 (TREMBLrel. 17, Last annotation update)
DE Surfactant protein D (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
RX NCBI_TaxID=9606;
RN [1]
RP MEDLINE=93142849; PubMed=8424457;
RA Crouch E., Persson A., Chang D.;
RT "Accumulation of surfactant protein D in human pulmonary alveolar
proteinosis.";
RL Am. J. Pathol. 142:241-248(1993).
DR InterPro: IPR000087; Collagen
SQ SEQUENCE 27 AA; 2696 MW; 8E770650E2A967CA CRC64;

Query Match
Best Local Similarity 4.5%; Score 11; DB 4; Length 27;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRGR 55
DB 1 GLPGRDGRGR 11
|||||

RESULT 3

ID 019813 PRELIMINARY; PRT; 289 AA.
AC 019813;
DT 01-NOV-1996 (TREMBLrel. 01, Created)
DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE F26F12.1 protein.
GN F26F12.1.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Pelodermidae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-BRISTOL N2;
RX MEDLINE=39069613; PubMed=9851916;
RA None;
RT "Genome sequence of the nematode C. elegans: a platform for
investigating biology. The C. elegans Sequencing Consortium.";
RL Science 282:2012-2018(1998).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN-BRISTOL N2;
RA Wilson R., Bentley D., Gattung S.;
RT "The sequence of C. elegans cosmid F26F12.";
RL Submitted (Apr-1996) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN-BRISTOL N2;
RA Waterston R.;
RL Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL: U55373; AAC35888.1;
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR002486; Col_cuticle_N.
DR Pfam: PF01391; Collagen; 3.
DR Pfam: PF01484; Col_cuticle_N; 1.
SQ SEQUENCE 289 AA; 28740 MW; DFFB78B2B34B29DF CRC64;

Query Match
Best Local Similarity 4.5%; Score 11; DB 5; Length 289;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 80 GPRGEGAPAG 90
DB 222 GPRGEGAPAG 232
|||||

RESULT 4

ID 09ACN2 PRELIMINARY; PRT; 306 AA.
AC 09ACN2;
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE SC1B protein.
GN SC1B.
OS Streptococcus pyogenes.
OC Bacteria; Firmicutes; Bacilli; Clostridium group; Lactobacillales;
OC Streptococcaceae; Streptococcus.
OX NCBI_TaxID=1314;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=655;
RX MEDLINE=21097281; PubMed=11158359;
RA Whamre A.M.;
RT "Streptococcus pyogenes sc1B encodes a putative hypervariable surface
protein with a collagen-like repetitive structure.";
RL Microbiology 147:419-429(2001).
DR EMBL: AJ301809; CAC33778.1;
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR001899; Gram_pos_anchor.
DR Pfam: PF00746; Collagen; 1.
DR Pfam: PF00746; Gram_pos_anchor; 1.
DR PRINTS: PRO0015; GPOSANCHOR.
DR TIGRGRAMS: TRIGR0167; LPXNG_anchor; 1.
DR PROSITE: PS00343; GRAM_POS_ANCHORING; UNKNOWN_1.
KW Transmembrane.
SQ SEQUENCE 306 AA; 31833 MW; 57EBD244DF17600 CRC64;

Query Match
Best Local Similarity 4.5%; Score 11; DB 2; Length 306;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 81 GPRGEGAPAG 91
DB 148 GPRGEGAPAG 158
|||||

RESULT 5

ID 08TCD8 PRELIMINARY; PRT; 375 AA.
AC 08TCD8;
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Hypothetical 37.7 Kda protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
RX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=LUNG;
RA Straussberg R.;
RL Submitted (Feb-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: BC022318; AAH22318.1;
DR Hypothetical protein.
SQ SEQUENCE 375 AA; 37655 MW; CCB737D3C86421A CRC64;

Query Match
Best Local Similarity 4.5%; Score 11; DB 4; Length 375;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRGR 55
|||||

DB 46 GLPGRDGRDGR 56

RESULT 6

09N1X4

PRELIMINARY; PRT; 378 AA.

AC 09N1X4; PRELIMINARY; PRT; 378 AA.
 DT 01-OCT-2000 (TREMblrel. 15, Created)
 DT 01-OCT-2000 (TREMblrel. 15, Last sequence update)
 DT 01-JUN-2002 (TREMblrel. 21, Last annotation update)
 DE Lung surfactant protein D precursor.
 GN SFTPD.
 OS Sus scrofa (pig).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
 OX NCBI_TaxID=9823;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE-20109098; PubMed-10640760;
 RA van Eljk M., Haegsman H.P., Skinner T., Archibald A.L., Reid K.B.M.,
 RA Lawson P.R.;
 RT Porcine Lung Surfactant Protein D (SP-D): cDNA cloning, chromosomal
 RL localisation and tissue distribution.
 RL J. Immunol. 164:1442-1450(2000).
 DR EMBL: AF133496; AAF22145.2; -.
 DR HSSP: P35247; 1808.
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF00059; Collagen_3.
 DR ProDom: PD000007; Collagen_1.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C-TYPE_LECTIN_1; 1.
 DR PROSITE: PS50041; C-TYPE_LECTIN_2; 1.
 KM Signal.
 FT SIGNAL.
 FT CHAIN.
 SQ SEQUENCE 378 AA; 37986 MW; 3504E8C1E56C341D CRC64;

Query Match

Best Local Similarity 100.0%; Score 11; DB 6; Length 378;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDGR 55
 |||||
 DB 46 GLPGRDGRDGR 56

RESULT 7

002842

PRELIMINARY; PRT; 57 AA.

AC 002842; PRELIMINARY; PRT; 57 AA.
 DT 01-JUL-1997 (TREMblrel. 04, Created)
 DT 01-JUL-1997 (TREMblrel. 04, Last sequence update)
 DT 01-JUN-2002 (TREMblrel. 21, Last annotation update)
 DE Surfactant protein A2 (Fragment).
 OS Papio cynocephalus (Yellow baboon).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
 OC Cercopithecinae; Papio.
 OX NCBI_TaxID=9556;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA TISSUE-KIDNEY;
 RA MEDLINE-97053398; PubMed-8897910;
 RA Gao E., Wang Y., McCormick S.M., Li J., Seidner S.R., Mendelson C.R.;
 RT Characterization of two baboon surfactant protein A genes.*;
 RL Am. J. Physiol. 271:L617-L630(1996).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA TISSUE-KIDNEY;
 RA Gao E., Wang Y., McCormick S.M., Li J., Seidner S.R., Mendelson C.R.;
 RL Submitted (MAY-1997) to the EMBL/GenBank/DBJ databases.

DR EMBL: AF003897; AAB61295.1; -.
 DR EMBL: AF003896; AAB61294.1; -.
 DR InterPro: IPR000087; Collagen.
 DR ProDom: PD000007; Collagen_1.
 FT NON_TER
 SQ SEQUENCE 57 AA; 5584 MW; B25149EC822F643C CRC64;

Query Match
 Best Local Similarity 100.0%; Score 10; DB 6; Length 57;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDGR 54
 |||||
 DB 40 GLPGRDGRDGR 49

RESULT 8

057451

PRELIMINARY; PRT; 238 AA.

AC 057451; PRELIMINARY; PRT; 238 AA.
 DT 01-JUN-1998 (TREMblrel. 06, Created)
 DT 01-JUN-1998 (TREMblrel. 06, Last sequence update)
 DT 01-JUN-2002 (TREMblrel. 21, Last annotation update)
 DE Mannan-binding lectin (Fragment).
 GN CMBL.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OX NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA STRAIN-WHITE LECHORN; TISSUE-LIVER;
 RA Laursen S.B.;
 RL Submitted (AUG-1997) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF022226; AAB94071.1; -.
 DR HSSP: P19999; 1YTF.
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR001304; Lectin_C.
 DR Pfam: PF01391; Collagen_1.
 DR ProDom: PD000007; Collagen_1.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C-TYPE_LECTIN_1; UNKNOWN_1.
 DR PROSITE: PS50041; C-TYPE_LECTIN_2; 1.
 KM Lectin.
 FT NON_TER
 SQ SEQUENCE 238 AA; 25645 MW; E5C9B5197AAB64E3 CRC64;

Query Match
 Best Local Similarity 100.0%; Score 10; DB 13; Length 238;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDGR 54
 |||||
 DB 31 GLPGRDGRDGR 40

RESULT 9

091907

PRELIMINARY; PRT; 246 AA.

AC 091907; PRELIMINARY; PRT; 246 AA.
 DT 01-OCT-2000 (TREMblrel. 15, Created)
 DT 01-OCT-2000 (TREMblrel. 15, Last sequence update)
 DT 01-JUN-2002 (TREMblrel. 21, Last annotation update)
 DE Mannose binding-like lectin precursor (Fragment).
 GN MBL.
 OS Carassius auratus (Goldfish).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Carassius.
 OX NCBI_TaxID=7957;
 RN [1]

```

RP      SEQUENCE FROM N.A.
RC      TISSUE=LIVER;
RX      MEDLINE=20456722; PubMed=11003389;
RA      Vitved L., Holmskov U., Koch C., Teisner B., Hansen S., Skjoldt K.;
RT      "The homologue of mannose-binding lectin in the carp family Cyprinidae
RT      is expressed at high level in spleen, and the deduced primary
RL      structure predicts affinity for galactose.";
DR      EMBL: AF217739; AAF63470.1; -.
DR      HSSP: P35247; 1B08.
DR      InterPro: IPR000087; Collagen.
DR      InterPro: IPR001304; Lectin_C.
DR      Pfam: PF01391; Collagen; 2.
DR      Pfam: PF00059; Lectin_C; 1.
DR      SMART: SM00034; CLECT; 1.
DR      PROSITE: PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
DR      Lectin; signal.
KW      LECTIN; signal.
FT      MON_TER      1      1
FT      SIGNAL      <1      13      POTENTIAL.
FT      VARIANT      145      145      S->F.
SQ      SEQUENCE      246 AA; 25709 MW; AB692282D289D0D5 CRC64;

Query Match
Best Local Similarity 100.0%; Score 10; DB 13; Length 246;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      45 GLPGRDGRDG 54
DB      35 GLPGRDGRDG 44

RESULT 10
O9TT06      PRELIMINARY;      PRT;      248 AA.
AC      O9TT06;
DT      01-MAY-2000 (TREMBLrel. 13, Created)
DT      01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT      01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE      Pulmonary surfactant protein A (Pulmonary surfactant-associated
DE      protein A).
OS      SPAS OR SP-A.
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC      Bovidae; Caprinae; Ovis.
OX      NCBI_TaxID=9940;
RN      [1]
RP      SEQUENCE FROM N.A.
RX      MEDLINE=20215262; PubMed=10749753;
RA      Brems G.A., Yao L.-J., Inchley K., Brickenden A., Han V.K.M.,
RA      Grolla A., Challis J.R.G., Possmayer F.;
RT      "Ovine surfactant protein cDNAs: use in studies on fetal lung growth
RT      and maturation after prolonged hypoxemia.";
RL      Am. J. Physiol. 278:L754-L764(2000).
RN      [2]
RP      SEQUENCE FROM N.A.
RC      TISSUE=LUNG;
RX      Pletschmann S.M., Pison U.;
RA      "cDNA cloning of ovine pulmonary SP-A, SP-B, and SP-C: Isolation of
RA      two different sequences for SP-B.";
RL      Am. J. Physiol. 278:L765-L778(2000).
DR      EMBL: AF211856; AAF18995.1; -.
DR      EMBL: AF076633; AAF31148.1; -.
DR      HSSP: P23897; 1EGC.
DR      InterPro: IPR000087; Collagen.
DR      InterPro: IPR001304; Lectin_C.
DR      Pfam: PF01391; Collagen; 2.
DR      Pfam: PF00059; Lectin_C; 1.
DR      SMART: SM00034; CLECT; 1.
DR      PROSITE: PS00615; C_TYPE_LLECTIN_1; 1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
SQ      SEQUENCE      248 AA; 26394 MW; D65E7293BBF1ED9 CRC64;

Query Match
Best Local Similarity 100.0%; Score 10; DB 6; Length 248;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      45 GLPGRDGRDG 54
DB      40 GLPGRDGRDG 49

RESULT 11
O9N0G1      PRELIMINARY;      PRT;      248 AA.
AC      O9N0G1;
DT      01-OCT-2000 (TREMBLrel. 15, Created)
DT      01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DT      01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE      Pulmonary surfactant protein A.
OS      Equus caballus (Horse).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
OX      NCBI_TaxID=9796;
RN      [1]
RP      SEQUENCE FROM N.A.
RC      STRAIN=THOROUGHbred; TISSUE=LUNG;
RA      Hodo S.;
RT      "Molecular cloning of equine pulmonary surfactant proteins.";
RL      Submitted (JUL-1998) to the EMBL/Genbank/DBD databases.
DR      EMBL: AB015963; BAA97976.1; -.
DR      HSSP: P35247; 1B08.
DR      InterPro: IPR000087; Collagen.
DR      InterPro: IPR001304; Lectin_C.
DR      Pfam: PF01391; Collagen; 2.
DR      Pfam: PF00059; Lectin_C; 1.
DR      SMART: SM00034; CLECT; 1.
DR      PROSITE: PS00615; C_TYPE_LLECTIN_1; 1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
SQ      SEQUENCE      248 AA; 26000 MW; BB612FEF805C2B8D1 CRC64;

Query Match
Best Local Similarity 100.0%; Score 10; DB 6; Length 248;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      45 GLPGRDGRDG 54
DB      40 GLPGRDGRDG 49

RESULT 12
O95L88      PRELIMINARY;      PRT;      248 AA.
AC      O95L88;
DT      01-DEC-2001 (TREMBLrel. 19, Created)
DT      01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT      01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE      Pulmonary surfactant-associated protein A.
OS      Equus caballus (Horse).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
OX      NCBI_TaxID=9796;
RN      [1]
RP      SEQUENCE FROM N.A.
RA      Weber B.L., Hospes R., Gortner L.;
RL      Submitted (JUL-2001) to the EMBL/Genbank/DBD databases.
DR      EMBL: AF400580; AAL07690.1; -.
DR      InterPro: IPR000087; Collagen.
DR      InterPro: IPR001304; Lectin_C.
DR      Pfam: PF01391; Collagen; 2.
DR      Pfam: PF00059; Lectin_C; 1.
DR      PROSITE: PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
DR      PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
SQ      SEQUENCE      248 AA; 26047 MW; B71133E005C9A5C1 CRC64;

```

Query Match
Best Local Similarity 4.1%; Score 10; DB 6; Length 248;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 45 GLPGRDGRDC 54
40 GLPGRDGRDC 49

RESULT 13

09C011 PRELIMINARY; PRT; 248 AA.
AC 09C011; 01-JUN-2001 (Tremblrel. 17, Created)
DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
DE 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE Surfactant associated protein A.
GN STPA.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]

SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=EMBRYO, AND LUNG;
RX MEDLINE=21085660; PubMed=11217851;

RA Kawai J., Shingawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
RA Alizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K. I.,
RA Saito T., Okada Y., Gojohori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H. A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole C., Quackenbush J.,
RA Schirml L. M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M. F.,
RA Brownstein M. J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Guelinich S., Hill D., Hofmann M., Hume D. A., Kamita M., Lee N. H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Schoenbach C., Seta T., Shibata Y., Storch K.-F.,
RA Sasaki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K. H., Weitz C., Whitaker C., Wilming L.,
RA Wyszynski B. A., Yoshida K., Hasegawa Y., Kawai J., Kohsaki S.,
RA Hayashizaki Y.,
RT *Functional annotation of a full-length mouse cDNA collection.*;
RL Nature 409:685-690(2001).
DR EMBL; AK011333; BAB27551.1; -
DR EMBL; AK004620; BAB23416.1; -
DR EMBL; AK004788; BAB23565.1; -
DR HSSP; P35247; 1808.
DR MGD; MGI:109518; Stepa.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF00059; Lectin_C; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE_LECTIN_1; 1.
DR PROSITE; PS00615; C-TYPE_LECTIN_2; 1.
SQ SEQUENCE 248 AA; 26183 MW; 8A5670CFAD3B986 CRC64;

Query Match
Best Local Similarity 4.1%; Score 10; DB 11; Length 248;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 45 GLPGRDGRDC 54
40 GLPGRDGRDC 49

RESULT 14
0987A4 PRELIMINARY; PRT; 254 AA.
ID 0987A4

AC 0987A4;
DT 01-JUN-2001 (Tremblrel. 17, Created)
DT 01-JUN-2001 (Tremblrel. 17, Last sequence update)
DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE Mannose-binding lectin protein precursor.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]

RP SEQUENCE FROM N.A.
RX MEDLINE=20456722; PubMed=11003389;
RA Vilved L., Holmskov U., Koch C., Telsner B., Hansen S., Skjold K.;
RT *The homologue of mannose-binding lectin in the carp family Cyprinidae
is expressed at high level in spleen, and the deduced primary
structure predicts affinity for galactose.*;
RT Immunogenetics 51:955-964(2000).
RL EMBL; AF21714; AAK30298.1; -
DR HSSP; P19999; 1YTT.

DR InterPro; IPR000087; Collagen.
DR InterPro; IPR000005; HTHAAC.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 1.
DR Pfam; PF00059; Lectin_C; 1.
DR ProDom; PD000007; Collagen; 1.
DR SMART; SM00034; CLECT; 1.
DR PROSITE; PS00615; C-TYPE_LECTIN_1; UNKNOWN_1.
DR PROSITE; PS00615; C-TYPE_LECTIN_2; 1.
DR PROSITE; PS00041; HTR_ARAC_FAMILY_1; UNKNOWN_1.
KW Lectin; Signal.

FT SIGNAL 1 21 POTENTIAL.
FT CHAIN 22 254 MANNOSE-BINDING LECTIN PROTEIN.
FT VARIANT 234 234 D -> V.
SQ SEQUENCE 254 AA; 27376 MW; C924428643441AED CRC64;

Query Match
Best Local Similarity 4.1%; Score 10; DB 13; Length 254;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

DB 45 GLPGRDGRDC 54
47 GLPGRDGRDC 56

RESULT 15
091909 PRELIMINARY; PRT; 256 AA.
ID 091909

AC 091909; 01-OCT-2000 (Tremblrel. 15, Created)
DT 01-OCT-2000 (Tremblrel. 15, Last sequence update)
DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE Mannose binding-like lectin precursor.

GN MBL.
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_TaxID=7962;
RN [1]

RP SEQUENCE FROM N.A.
RC TISSUE=LIVER;
RX MEDLINE=20456722; PubMed=11003389;
RA Vilved L., Holmskov U., Koch C., Telsner B., Hansen S., Skjold K.;
RT *The homologue of mannose-binding lectin in the carp family Cyprinidae
is expressed at high level in spleen, and the deduced primary
structure predicts affinity for galactose.*;
RT Immunogenetics 51:955-964(2000).
RL EMBL; AF227737; AAF63468.1; -
DR HSSP; P35247; 1808.

DR InterPro; IPR000087; Collagen.
DR InterPro; IPR001304; Lectin_C.
DR Pfam; PF01391; Collagen; 2.

DR Pfam: PF00059; lectin_c; 1.
 DR SMART: SM00034; CLECT; 1.
 DR PROSITE: PS00615; C_TYPE_LLECTIN_1; UNKNOWN_1.
 DR PROSITE: PS50041; C_TYPE_LLECTIN_2; 1.
 KW lectin; signal.
 FT SIGNAL 1 23
 FT CHAIN 24 256 POTENTIAL.
 FT VARIANT 235 235 MANNOSE BINDING-LIKE LECTIN.
 SQ SEQUENCE 256 AA; 26934 MW; D019291D1167730D CRC64;

Query Match 4.1%; Score 10; DB 13; Length 256;
 Best Local Similarity 100.0%; Pred. No. 0.22;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 45 GLPGRDGRDG 54
 DB 45 GLPGRDGRDG 54

Search completed: June 18, 2003, 15:05:52
 Job time : 91 secs

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OM protein - protein search, using sw model

Run on: June 18, 2003, 15:02:44 ; Search time 26 seconds

(without alignments)
274.991 Million cell updates/sec

Title: US-09-943-851A-42

Perfect score: 243
Sequence: 1 MRPLVLLGLAGSPPLD.....DSTFGFLVYSMDHSHSPVFA 243

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 262574 seqs, 29422922 residues

Word size : 0

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued Patents_AA:*

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2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:.*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:.*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:.*
5: /cgn2_6/ptodata/1/1aa/PCPUS_COMB.pep:.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	243	100.0	243	US-09-140-804-2	Sequence 2, Appl1
2	243	100.0	243	US-09-336-536-3	Sequence 3, Appl1
3	228	93.8	228	US-09-336-536-4	Sequence 4, Appl1
4	128	52.7	128	US-09-336-536-7	Sequence 7, Appl1
5	70	28.8	243	US-09-188-930-295	Sequence 295, App
6	62	25.5	228	US-09-336-536-11	Sequence 11, Appl
7	62	25.5	243	US-09-336-536-10	Sequence 10, Appl
8	60	24.7	60	US-09-336-536-14	Sequence 6, Appl1
9	51	21.0	128	US-09-336-536-6	Sequence 13, Appl
10	43	17.7	60	US-09-336-536-13	Sequence 14, Appl
11	15	6.2	15	US-09-336-536-5	Sequence 5, Appl1
12	11	4.5	128	US-09-227-357-190	Sequence 190, App
13	10	4.1	1057	US-08-931-820-4	Sequence 4, Appl1
14	10	4.1	1078	US-08-963-825-21	Sequence 21, Appl
15	10	4.1	1078	US-09-500-811-21	Sequence 21, Appl
16	10	4.1	1078	US-09-570-573-21	Sequence 21, Appl
17	10	4.1	1078	US-09-548-608-21	Sequence 21, Appl
18	10	4.1	1078	US-09-548-608-21	Sequence 21, Appl
19	8	3.3	130	US-09-485-316A-10	Sequence 10, Appl
20	8	3.3	170	US-08-313-681A-2	Sequence 2, Appl1
21	8	3.3	170	US-08-313-681A-2	Sequence 2, Appl1
22	8	3.3	184	US-08-211-942-7	Sequence 7, Appl1
23	8	3.3	184	US-08-211-942-9	Sequence 9, Appl1
24	8	3.3	222	US-09-140-804-7	Sequence 7, Appl1
25	8	3.3	231	US-09-530-423-2	Sequence 2, Appl1
26	8	3.3	244	US-08-463-911-7	Sequence 7, Appl1
27	8	3.3	244	US-09-140-804-3	Sequence 3, Appl1

28	8	3.3	244	US-09-336-536-20	Sequence 20, Appl1
29	8	3.3	244	US-09-530-423-1	Sequence 1, Appl1
30	8	3.3	247	US-08-463-911-2	Sequence 2, Appl1
31	8	3.3	247	US-09-140-804-8	Sequence 8, Appl1
32	8	3.3	247	US-09-118-408-3	Sequence 3, Appl1
33	8	3.3	247	US-09-506-855-3	Sequence 3, Appl1
34	8	3.3	368	US-08-211-942-17	Sequence 17, Appl1
35	8	3.3	547	US-08-494-168-7	Sequence 7, Appl1
36	8	3.3	1024	US-08-931-820-2	Sequence 2, Appl1
37	8	3.3	1366	US-08-963-825-19	Sequence 19, Appl1
38	8	3.3	1366	US-09-500-811-19	Sequence 19, Appl1
39	8	3.3	1366	US-09-570-573-19	Sequence 19, Appl1
40	8	3.3	1366	US-09-548-608-19	Sequence 19, Appl1
41	8	3.3	1366	US-09-548-608-19	Sequence 19, Appl1
42	8	3.3	1366	US-09-289-578-10	Sequence 10, Appl1
43	8	3.3	1442	US-08-316-650-12	Sequence 12, Appl1
44	8	3.3	1442	PCT-US95-02251-12	Sequence 12, Appl1
45	8	3.3	1694	US-08-494-168-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-140-804-2
; Sequence 2, Application US/09140804
; Patent No. 6197930
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
; FILE REFERENCE: 97-49
; CURRENT APPLICATION NUMBER: US/09/140, 804
; CURRENT FILING DATE: 1998-08-26
; EARLIER APPLICATION NUMBER: 60/056, 983
; EARLIER FILING DATE: 1997-08-26
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-140-804-2

Query Match 100.0%; Score 243; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-218;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MRPLVLLGLAGSPPLDNNKIPSLCPGHPCLPCTPGHSGQLPRGRDGRDGRGARG	60
DB	1	MRPLVLLGLAGSPPLDNNKIPSLCPGHPCLPCTPGHSGQLPRGRDGRDGRGARG	60
QY	61	APPEKGGRRGRLPGRCGDPGRCGEAGAPPTGAGECSVPPRSARSRSPVPPSD	120
DB	61	APPEKGGRRGRLPGRCGDPGRCGEAGAPPTGAGECSVPPRSARSRSPVPPSD	120
QY	121	APLPRLVNEGCHDAVTKFTQVPCVYFFAVHATVYRASLDFDLVKNESIASFQ	180
DB	121	APLPRLVNEGCHDAVTKFTQVPCVYFFAVHATVYRASLDFDLVKNESIASFQ	180
QY	181	FFGMRKPSLSCGAVVRLPEDOVWVGVDYIGIVASITDSTFGSFLYSMDHSHSP	240
DB	181	FFGMRKPSLSCGAVVRLPEDOVWVGVDYIGIVASITDSTFGSFLYSMDHSHSP	240
QY	241	VFA 243	
DB	241	VFA 243	

RESULT 2
US-09-336-536-3
; Sequence 3, Application US/09336536
; Patent No. 6406884

GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO: 3
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-3

Query Match 100.0%; Score 243; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-218;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIFSLCPHGLPTEGHHGSGQLPGRDGRDGPAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIFSLCPHGLPTEGHHGSGQLPGRDGRDGPAG 60
QY 61 APEGEGEGRPLPGRDGPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSD 120
DB 61 APEGEGEGRPLPGRDGPGRGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSD 120
QY 121 ALPLPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVHAATVYRASLOPLVNGESIASFFQ 180
DB 121 ALPLPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVHAATVYRASLOPLVNGESIASFFQ 180
QY 181 FFGGMPKPAISLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSFGFLVSDMHSSP 240
DB 181 FFGGMPKPAISLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTDSFGFLVSDMHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 3
US-09-336-536-4
Sequence 4, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO: 4
LENGTH: 228
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-4

Query Match 93.8%; Score 228; DB 4; Length 228;
Best Local Similarity 100.0%; Pred. No. 1.4e-204;
Matches 228; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 SPPLDNDKIPSLCPHGLPTEGHHGSGQLPGRDGRDGPAGGAGGEGGRPLPG 75
DB 1 SPPLDNDKIPSLCPHGLPTEGHHGSGQLPGRDGRDGPAGGAGGEGGRPLPG 75
QY 76 PRGDGPRGEGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSDALPLPDRVLVNEOGH 135
DB 61 PRGDGPRGEGAGPAGPTGAGGECVPPRSASFSAKRSSESVPPSDALPLPDRVLVNEOGH 120

QY 136 YDAVTGKFTCOVPGVYFAVHAATVYRASLOPLVNGESIASFFQFGGMPKPAISLSCG 195
DB 121 YDAVTGKFTCOVPGVYFAVHAATVYRASLOPLVNGESIASFFQFGGMPKPAISLSCG 180
QY 196 MVRLEPDQVWVGVGDYIGIYASIKTDSFGFLVSDMHSSPVEA 243
DB 181 MVRLEPDQVWVGVGDYIGIYASIKTDSFGFLVSDMHSSPVEA 228

RESULT 4
US-09-336-536-7
Sequence 7, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: Leiby, K.
APPLICANT: McKay, C.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
NUMBER OF SEQ ID NOS: 75
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO: 7
LENGTH: 128
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-7

Query Match 52.7%; Score 128; DB 4; Length 128;
Best Local Similarity 100.0%; Pred. No. 9.7e-112;
Matches 128; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 105 AFSAKRSSESVPPSDALPLPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVHAATVYRASL 164
DB 1 AFSAKRSSESVPPSDALPLPDRVLVNEOGHYDAVTGKFTCOVPGVYFAVHAATVYRASL 60
QY 165 QFDLVKNGESIASFFQFGGMPKPAISLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTD 224
DB 61 QFDLVKNGESIASFFQFGGMPKPAISLSCGAMVRLPEPDQVWVGVGDYIGIYASIKTD 120
QY 225 STESGFLV 232
DB 121 STESGFLV 128

RESULT 5
US-09-188-930-295
Sequence 295, Application US/09188930A
Patent No. 6150502
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Strachan, Lorna
APPLICANT: Sleeman, Matthew
APPLICANT: Muriison, James Greg
TITLE OF INVENTION: Compositions Isolated from skin cells
FILE REFERENCE: 11000.1011C1
CURRENT APPLICATION NUMBER: US/09/188,930A
NUMBER OF SEQ ID NOS: 348
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 295
LENGTH: 243
TYPE: PRT
ORGANISM: Rat
US-09-188-930-295

Query Match 28.8%; Score 70; DB 4; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-57;
Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 6
US-09-336-536-11

Query Match	25.5%;	Score 62;	DB 4;	Length 228
Best Local Similarity	100.0%;	Pred. No. 4	2e-50;	
Matches 62;	Conservative	0;	Matrix	

RESULT 7
US-09-336-536-10

Query Match	25.5%;	Score 62;	DB 4;	Length 243,
Best Local Similarity	100.0%;	Pred. No.	4.5e-50;	
Matches	62;	Conservative	0.	Mismatched

Db 242 FA 243

Query Match	24.78;	Score 60;	DB 4;	Length 60;
Best Local Similarity	100.0%;	Pred. No. 9.6e-49;		
Matches	60;	Conservative 0;	Mismatches 0;	

RESULT 9
US-09-336-536-14
; Sequence 14, A

Query Match	21.08;	Score 51;	DB 4;	Length 128;
Best Local Similarity	100.08;	Pred. No. 4.4e-40;		
Matches	51;	Conservative	0;	Mismatches 0;
				Indels

RESULT 10
US-09-336-536-13
Sequence 13, A

CURRENT FILING DATE: 1995
NUMBER OF SEQ ID NOS: 75

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 13
LENGTH: 60
TYPE: PRT
ORGANISM: Mus musculus
US-09-336-536-13

Query Match
Best Local Similarity 17.7%; Score 43; DB 4; Length 60;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 GTPGHGSGQLPGRGDRGARGARGEGGEGGRLPPRG 78
DB 1 GTPGHGSGQLPGRGDRGARGARGEGGEGGRLPPRG 43

RESULT 11
US-09-336-536-5
Sequence 5, Application US/09336536
Patent No. 6406884
GENERAL INFORMATION:
APPLICANT: McKay, K.
APPLICANT: Bosson, S.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-144
CURRENT APPLICATION NUMBER: US/09/336,536
CURRENT FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 75
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5
LENGTH: 15
TYPE: PRT
ORGANISM: Homo sapiens
US-09-336-536-5

Query Match
Best Local Similarity 6.2%; Score 15; DB 4; Length 15;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAG 15
DB 1 MRPLVLLLLGLAAG 15

RESULT 12
US-09-227-357-190
Sequence 190, Application US/09227357
Patent No. 6342581
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P2010P1
CURRENT APPLICATION NUMBER: US/09/227,357
EARLIER APPLICATION NUMBER: 1999-01-08
EARLIER FILING DATE: 1998-07-07
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,793
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,925
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,929
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,803
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,732
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,931
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,932
EARLIER FILING DATE: 1997-07-08

EARLIER APPLICATION NUMBER: 60/051,916
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,930
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,918
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,920
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,733
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,795
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,919
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,928
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/055,722
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,723
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,948
EARLIER FILING DATE: 1997-08-18
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EARLIER APPLICATION NUMBER: 60/055,950
EARLIER FILING DATE: 1997-08-18
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EARLIER APPLICATION NUMBER: 60/055,964
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/056,360
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,684
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EARLIER APPLICATION NUMBER: 60/058,785
EARLIER FILING DATE: 1997-09-12
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EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,660
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,661
EARLIER FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 190
LENGTH: 128
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (127)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
LOCATION: (128)
OTHER INFORMATION: Xaa equals stop translation
US-09-227-357-190

Query Match
Best Local Similarity 4.5%; Score 11; DB 4; Length 128;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 GTPGRDGRGR 55
DB 59 GTPGRDGRGR 69

RESULT 13
US-08-931-820-4
Sequence 4, Application US/08931820
Patent No. 6010863
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Assay for collagen degradation
NUMBER OF SEQUENCES: 4
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,820
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 96202596.1
FILING DATE:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1057 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHEICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Collagen type III
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1055
OTHER INFORMATION: /label= Modified
OTHER INFORMATION: /note= Ala may be pro
US-08-931-820-4

Query Match
Best Local Similarity 4.1%; Score 10; DB 3; Length 1057;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 60 GAGEKEGCG 69
DB 680 GAGEKEGCG 689

RESULT 14
US-08-963-825-21
Sequence 21, Application US/08963825
Patent No. 6110689
GENERAL INFORMATION:
APPLICANT: Oviat, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: In Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/963,825

FILING DATE: 436
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/187,319
FILING DATE: 21-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Gogoris, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687
US-08-963-825-21

INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 1078 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: COLLAGEN ALPHA 1 (III)
US-08-963-825-21

Query Match
Best Local Similarity 4.1%; Score 10; DB 3; Length 1078;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 60 GAGEKEGCG 69
DB 681 GAGEKEGCG 690

RESULT 15
US-09-500-811-21
Sequence 21, Application US/09500811
Patent No. 6323314
GENERAL INFORMATION:
APPLICANT: Oviat, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: In Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/500,811
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,319
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Gogoris, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687

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; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1078 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; IMMEDIATE SOURCE:
; CLONE: COLLAGEN ALPHA 1 (III)
US-09-500-811-21

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Query Match      4.18; Score 10; DB 4; Length 1078;
Best Local Similarity 100.0%; Pred. No. 0.4;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 60 GAPGEGEGG 69
DB 681 GAPGEGEGG 690

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SUMMARIES

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6	243	100.0	243	9	US-09-944-929-42
7	243	100.0	243	9	US-10-028-072-362
8	243	100.0	243	9	US-10-121-049-362
9	243	100.0	243	9	US-10-123-904-362
10	243	100.0	243	9	US-10-140-470-362
11	243	100.0	243	9	US-09-796-753-68
12	243	100.0	243	9	US-10-175-746-362
13	243	100.0	243	9	US-10-176-918-362
14	243	100.0	243	9	US-10-176-921-362
15	243	100.0	243	9	US-10-137-865-362
16	243	100.0	243	9	US-10-140-474-362
17	243	100.0	243	9	US-10-143-431-362
18	243	100.0	243	9	US-10-143-114-362
19	243	100.0	243	9	US-10-140-002-362

20	243	100.0	243	9	US-10-142-419-362	Sequence 362, App
21	243	100.0	243	9	US-10-123-262-362	Sequence 362, App
22	243	100.0	243	9	US-10-142-423-362	Sequence 362, App
23	243	100.0	243	9	US-10-121-050-362	Sequence 362, App
24	243	100.0	243	9	US-10-141-755-362	Sequence 362, App
25	243	100.0	243	9	US-10-143-032-362	Sequence 362, App
26	243	100.0	243	9	US-10-123-108-362	Sequence 362, App
27	243	100.0	243	9	US-10-123-261-362	Sequence 362, App
28	243	100.0	243	9	US-10-123-902-362	Sequence 362, App
29	243	100.0	243	9	US-10-123-908-362	Sequence 362, App
30	243	100.0	243	9	US-10-140-928-362	Sequence 362, App
31	243	100.0	243	9	US-10-121-045-362	Sequence 362, App
32	243	100.0	243	9	US-10-123-292-362	Sequence 362, App
33	243	100.0	243	9	US-10-123-903-362	Sequence 362, App
34	243	100.0	243	9	US-10-124-819-362	Sequence 362, App
35	243	100.0	243	9	US-10-124-822-362	Sequence 362, App
36	243	100.0	243	9	US-10-140-925-362	Sequence 362, App
37	243	100.0	243	9	US-10-160-498-362	Sequence 362, App
38	243	100.0	243	9	US-09-944-884-42	Sequence 42, App
39	243	100.0	243	9	US-10-121-041-362	Sequence 362, App
40	243	100.0	243	9	US-10-121-043-362	Sequence 362, App
41	243	100.0	243	9	US-10-121-047-362	Sequence 362, App
42	243	100.0	243	9	US-10-123-215-362	Sequence 362, App
43	243	100.0	243	9	US-10-123-902-362	Sequence 362, App
44	243	100.0	243	9	US-10-123-908-362	Sequence 362, App
45	243	100.0	243	9	US-10-123-909-362	Sequence 362, App

ALIGNMENTS

RESULT 1
US-09-944-413-42
Sequence 42, Application US/09944413
Patent No. US20020156004A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gertlisen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Thomas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944,413
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,686
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997

;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/074,092
;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28409
;; PRIOR FILING DATE: No. US200201560041eember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US200201560041eember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December 1, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: February 28, 2001
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 42
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-413-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7,9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MRPLVLLLLGLAAGPPLDNDKIRSLCPGHPGLPTGPHHSGGLPGRDGRDGRDCAFG 60
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Db 1 MRPLVLLLLGLAAGPPLDNDKIRSLCPGHPGLPTGPHHSGGLPGRDGRDGRDCAFG 60
QY 61 ARGEAGEGEGREGLPGRRDPPRRGEAGPPTGAGCSYPPRPAFAKRSERVPSPD 120
Db 61 ARGEAGEGEGREGLPGRRDPPRRGEAGPPTGAGCSYPPRPAFAKRSERVPSPD 120
QY 121 ALPFRDRLVNEOGHYDAVTKFTCOYVGYVFAVATVTRASLQFDLVNKGESIASFFQ 180
Db 121 ALPFRDRLVNEOGHYDAVTKFTCOYVGYVFAVATVTRASLQFDLVNKGESIASFFQ 180
QY 181 FFGGMPKPRASLSGAMVRLPEDDQVWVGVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
Db 181 FFGGMPKPRASLSGAMVRLPEDDQVWVGVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 2
US-09-944-403-42
;; Sequence 42, Application US/09944403
;; Patent No. US20020165143A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David
;; APPLICANT: Baton, Dan
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gertlissen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavlin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2348PICI
;; CURRENT FILING DATE: US/09/944,403
;; PRIOR APPLICATION NUMBER: 2001-09-26
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,335
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,425
;; PRIOR FILING DATE: December 12, 1997
;; PRIOR APPLICATION NUMBER: 60/069,696
;; PRIOR FILING DATE: December 15, 1997
;; PRIOR APPLICATION NUMBER: 60/069,694
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,702
;; PRIOR FILING DATE: December 16, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/069,873
;; PRIOR FILING DATE: December 17, 1997
;; PRIOR APPLICATION NUMBER: 60/068,017
;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998

PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1998
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020165143A1eember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020165143A1eember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30005
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03365
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 42
LENGTH: 243
TYPE: PRM
ORGANISM: Homo Sapien
US-09-944-403-42

Query Match 100.0% Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MRLVLLVLLGLIAGSPPLDNKIPSLCPGHPGPGTIPGHHGSGQGLPGRGRCGRCAGC 60
1 MRLVLLVLLGLIAGSPPLDNKIPSLCPGHPGPGTIPGHHGSGQGLPGRGRCGRCAGC 60
61 APGEKSGRGRLGPGGDDPGREACPGPTGAGCSCVPPRSASAKRSSESRVPPSD 120
61 APGEKSGRGRLGPGGDDPGREACPGPTGAGCSCVPPRSASAKRSSESRVPPSD 120
121 APLEPDRVLNVEGCHYDAVTKFTCOVPGVYFAVAHATYRSLQDPLVKNESIASFFQ 180
121 APLEPDRVLNVEGCHYDAVTKFTCOVPGVYFAVAHATYRSLQDPLVKNESIASFFQ 180
121 APLEPDRVLNVEGCHYDAVTKFTCOVPGVYFAVAHATYRSLQDPLVKNESIASFFQ 180
181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIVASITDSTFSGFLVSDMHSSP 240
181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIVASITDSTFSGFLVSDMHSSP 240

DB 181 FFGWPKPASISGAMVRLPEPDQVWVGVDYIGIVASITDSTFSGFLVSDMHSSP 240
QY 241 VEA 243
DB 241 VEA 243

RESULT 3
US-09-944-896-42
Sequence 42, Application US/09944896
Patent NO. US20020168713A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Balon, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavlin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tunas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 896
PRIOR FILING DATE: 2001-08-31
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/069, 334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 335
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069, 425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069, 696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069, 870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069, 873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068, 017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070, 440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074, 086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074, 092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075, 945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112, 850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113, 296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146, 222
PRIOR FILING DATE: July 28, 1998
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998

Query Match	100.08;	Score 243;	DB 9;	Length 243
Best Local Similarity	100.08;	Pred. NO. 7	9a-207.	
Matches 243				

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QY	1	MRPLTVLLILGLIAAGSPRLDDNKKIPSLICPGHGLPGTGFHHGSGGLGRCGRGRCAGC	60		
Db	1	MRPLTVLLILGLIAAGSPRLDDNKKIPSLICPGHGLPGTGFHHGSGGLGRCGRGRCAGC	60		
QY	61	APGKEGCGAPGLPGRCRDPGRCGAGCGAGTGFAGCSPVPKSAFSAKRSESRYVPPSD	120		
Db	61	APGKEGCGAPGLPGRCRDPGRCGAGCGAGTGFAGCSPVPKSAFSAKRSESRYVPPSD	120		
QY	121	APLPFRVLVYNBOGHHYDVTGKTCQVPPGVYYEAVNAATYVRASLQEDLVKKNESIASPEQ	180		
Db	121	APLPFRVLVYNBOGHHYDVTGKTCQVPPGVYYEAVNAATYVRASLQEDLVKKNESIASPEQ	180		
QY	181	FRGCGKKRPAASLGGCAVRLPEPDQVWVQVGVGYIGITAYASITDSTPESFGLVYSDMHSSP	240		
Db	181	FRGCGKKRPAASLGGCAVRLPEPDQVWVQVGVGYIGITAYASITDSTPESFGLVYSDMHSSP	240		
QY	241	VEA 243			
Db	241	VEA 243			

RESULT 4
US-09-944-944-42
Sequence 42, Application US/099449444
Patent No. US20020173463A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David

1 APPLICANT: Baton, Dan
 2 APPLICANT: Perrata, Napoleone
 3 APPLICANT: Filvaroff, Ellen
 4 APPLICANT: Gettitsen, Mary
 5 APPLICANT: Goddard, Audrey
 6 APPLICANT: Godowski, Paul
 7 APPLICANT: Grimaldi, Christopher
 8 APPLICANT: Gurney, Austin
 9 APPLICANT: Hillan, Kenneth
 10 APPLICANT: Kijavrin, Ivar
 11 APPLICANT: Napier, Mary
 12 APPLICANT: Roy, Margaret
 13 APPLICANT: Tumas, Daniel
 14 APPLICANT: Wood, William
 15 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 16 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 17 FILE REFERENCE: P2548PCL
 18 CURRENT APPLICATION NUMBER: 2001-09-26
 19 PRIOR APPLICATION NUMBER: 2001-09-26
 20 PRIOR FILING DATE: 2001-05-25
 21 PRIOR APPLICATION NUMBER: 60/067,411
 22 PRIOR FILING DATE: December 3, 1997
 23 PRIOR APPLICATION NUMBER: 60/069,334
 24 PRIOR FILING DATE: December 11, 1997
 25 PRIOR APPLICATION NUMBER: 60/069,335
 26 PRIOR FILING DATE: December 11, 1997
 27 PRIOR APPLICATION NUMBER: 60/069,278
 28 PRIOR FILING DATE: December 11, 1997
 29 PRIOR APPLICATION NUMBER: 60/069,425
 30 PRIOR FILING DATE: December 12, 1997
 31 PRIOR APPLICATION NUMBER: 60/069,696
 32 PRIOR FILING DATE: December 16, 1997
 33 PRIOR APPLICATION NUMBER: 60/069,694
 34 PRIOR FILING DATE: December 16, 1997
 35 PRIOR APPLICATION NUMBER: 60/069,702
 36 PRIOR FILING DATE: December 16, 1997
 37 PRIOR APPLICATION NUMBER: 60/069,870
 38 PRIOR FILING DATE: December 17, 1997
 39 PRIOR APPLICATION NUMBER: 60/069,873
 40 PRIOR FILING DATE: December 17, 1997
 41 PRIOR APPLICATION NUMBER: 60/068,017
 42 PRIOR FILING DATE: December 18, 1997
 43 PRIOR APPLICATION NUMBER: 60/070,440
 44 PRIOR FILING DATE: January 5, 1998
 45 PRIOR APPLICATION NUMBER: 60/074,086
 46 PRIOR FILING DATE: February 9, 1998
 47 PRIOR APPLICATION NUMBER: 60/074,092
 48 PRIOR FILING DATE: February 9, 1998
 49 PRIOR APPLICATION NUMBER: 60/075,945
 50 PRIOR FILING DATE: February 25, 1998
 51 PRIOR APPLICATION NUMBER: 60/112,850
 52 PRIOR FILING DATE: December 16, 1998
 53 PRIOR APPLICATION NUMBER: 60/113,296
 54 PRIOR FILING DATE: December 22, 1998
 55 PRIOR APPLICATION NUMBER: 60/146,222
 56 PRIOR FILING DATE: July 28, 1999
 57 PRIOR APPLICATION NUMBER: PCT/US98/19330
 58 PRIOR FILING DATE: September 16, 1998
 59 PRIOR APPLICATION NUMBER: PCT/US98/25108
 60 PRIOR FILING DATE: December 1, 1998
 61 PRIOR APPLICATION NUMBER: 09/216,021
 62 PRIOR FILING DATE: December 16, 1998
 63 PRIOR APPLICATION NUMBER: 09/216,517
 64 PRIOR FILING DATE: December 22, 1998
 65 PRIOR APPLICATION NUMBER: 09/2254,311
 66 PRIOR FILING DATE: March 3, 1999
 67 PRIOR APPLICATION NUMBER: PCT/US99/12252
 68 PRIOR FILING DATE: June 22, 1999
 69 PRIOR APPLICATION NUMBER: PCT/US99/21090
 70 PRIOR FILING DATE: September 15, 1999
 71 PRIOR APPLICATION NUMBER: PCT/US99/22409
 72 PRIOR FILING DATE: No. US2002017463A, member 30, 1999

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;; PRIOR APPLICATION NUMBER: PCT/US99/28313
;; PRIOR FILING DATE: No. US20020173463A:ember 30, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/28301
;; PRIOR FILING DATE: December, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: December 16, 1999
;; PRIOR APPLICATION NUMBER: PCT/US00/03565
;; PRIOR FILING DATE: February 11, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/04414
;; PRIOR FILING DATE: February 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
;; PRIOR FILING DATE: July 28, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 42
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-944-42
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Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHGSGGLPGRDGRDGRDAGP 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHGSGGLPGRDGRDGRDAGP 60
QY 61 APGEKGGGRRPGLPGPRDPPGRGEGAPGPTGPGAGCSVPFRSAFSAKRSSESRVPPSD 120
DB 61 APGEKGGGRRPGLPGPRDPPGRGEGAPGPTGPGAGCSVPFRSAFSAKRSSESRVPPSD 120
QY 121 APLPFDRLVNEQGHYDAVTGKFTQVPGVYFVAVHATYVRASLQFDLVKNGESIASFFQ 180
DB 121 APLPFDRLVNEQGHYDAVTGKFTQVPGVYFVAVHATYVRASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKASLSGCAWVLEPEDQVWVQVGVGYIGIYASIKTDSFGFLVYSMDHSSP 240
DB 181 FFGGMPKASLSGCAWVLEPEDQVWVQVGVGYIGIYASIKTDSFGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243
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RESULT 5

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US-09-944-907-42
;; Sequence 42, Application US/09944907
;; Publication NO. US20020198147A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David
;; APPLICANT: Ferrata, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerltsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavlin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
```

```
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE OF INVENTION: ACIDS ENCODING THE SAME
;; FILE REFERENCE: P2548P1C1
;; CURRENT APPLICATION NUMBER: US/09/944,907
;; PRIOR FILING DATE: 2001-08-31
;; PRIOR APPLICATION NUMBER: 09/866,028
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 42
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-907-42
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Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHGSGGLPGRDGRDGRDAGP 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPGTPGHHGSGGLPGRDGRDGRDAGP 60
QY 61 APGEKGGGRRPGLPGPRDPPGRGEGAPGPTGPGAGCSVPFRSAFSAKRSSESRVPPSD 120
DB 61 APGEKGGGRRPGLPGPRDPPGRGEGAPGPTGPGAGCSVPFRSAFSAKRSSESRVPPSD 120
QY 121 APLPFDRLVNEQGHYDAVTGKFTQVPGVYFVAVHATYVRASLQFDLVKNGESIASFFQ 180
DB 121 APLPFDRLVNEQGHYDAVTGKFTQVPGVYFVAVHATYVRASLQFDLVKNGESIASFFQ 180
QY 181 FFGGMPKASLSGCAWVLEPEDQVWVQVGVGYIGIYASIKTDSFGFLVYSMDHSSP 240
DB 181 FFGGMPKASLSGCAWVLEPEDQVWVQVGVGYIGIYASIKTDSFGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243
```

RESULT 6

```
US-09-944-929-42
;; Sequence 42, Application US/09944929
;; Publication NO. US20020197612A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin
;; APPLICANT: Botstein, David
;; APPLICANT: Ferrata, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Gerltsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Grimaldi, Christopher
;; APPLICANT: Gurney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavlin, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548P1C1
;; CURRENT APPLICATION NUMBER: US/09/944,929
;; PRIOR FILING DATE: 2001-08-31
;; PRIOR APPLICATION NUMBER: 09/866,028
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 42
;; LENGTH: 243
;; TYPE: PRT
```

ORGANISM: Homo Sapien
US-09-944-929-42

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7, 9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLAGSPPDDNKIPSLCPGHPGLPTGPHGSGGLRGDRGRGAG 60
DB 1 MRPLVLLGLAGSPPDDNKIPSLCPGHPGLPTGPHGSGGLRGDRGRGAG 60
QY 61 APGKGGGRRGPGPRGDPGPGEGAPGPTGPGEGCSVPSPSAFSAKRSRVPSPD 120
DB 61 APGKGGGRRGPGPRGDPGPGEGAPGPTGPGEGCSVPSPSAFSAKRSRVPSPD 120
QY 121 APPLPDRVLNEDGHDVATGKFTCPVGYVFAVATYRASLPDLKNESTASFFQ 180
DB 121 APPLPDRVLNEDGHDVATGKFTCPVGYVFAVATYRASLPDLKNESTASFFQ 180
QY 181 FFGGMRKPSLSGCAVRLPEPDVWVGVGDYIGITVASIKTDSFTSGFLVYSMDHSSP 240
DB 181 FFGGMRKPSLSGCAVRLPEPDVWVGVGDYIGITVASIKTDSFTSGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 7
US-10-028-072-362

Sequence 362, Application US/10028072
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OR INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028,072
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059388

PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059836
PRIOR FILING DATE: 1997-09-24
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062814
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063045
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063127
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063327
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063550
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063561
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063704
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063735
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063738
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063755
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064248
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/064809
PRIOR FILING DATE: 1997-11-07
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065846
PRIOR FILING DATE: 1997-11-17
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066453
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066511
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069212
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069278
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072320
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086414
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/086430
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088730
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088741
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445

PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090538
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLAAGSPPLDDNKIPSLCGHGLPSTPGHMSQGLPGRDGHDGARG 60
DB 1 MRPLVLLGLAAGSPPLDDNKIPSLCGHGLPSTPGHMSQGLPGRDGHDGARG 60
QY 61 APGEKEGGRPGIPGRGDPGRGEGAPGTPGAGGECVPPRSAPSAKRSRVPSPD 120
DB 61 APGEKEGGRPGIPGRGDPGRGEGAPGTPGAGGECVPPRSAPSAKRSRVPSPD 120
QY 121 APLEPRVLVNEGHTDAVTGKFTQVPCVYFAVHATYRASLQFDLVKNSESTASFFQ 180
DB 121 APLEPRVLVNEGHTDAVTGKFTQVPCVYFAVHATYRASLQFDLVKNSESTASFFQ 180
QY 181 FFGWPKRPSLSGAMVRLPEPDQVWVGVCDYIGIYASIKTDSFGFLYSSMHSPP 240
DB 181 FFGWPKRPSLSGAMVRLPEPDQVWVGVCDYIGIYASIKTDSFGFLYSSMHSPP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 8
US-10-121-049-362
Sequence 362, Application US/10121049
Publication No. US2003002239A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P333081C17
CURRENT APPLICATION NUMBER: US/10/121, 049
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-121-049-362

Query Match 100.0%; Score 243; DB 9; Length 243;

Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPCTPGHHSOGCLPGDRGDRDCAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPCTPGHHSOGCLPGDRGDRDCAAG 60
QY 61 APGEKGGGRPGRLPGRRDPPGRCGACGAGTGPAGECVPPRPSAFSAKRSESRVPPSPD 120
DB 61 APGEKGGGRPGRLPGRRDPPGRCGACGAGTGPAGECVPPRPSAFSAKRSESRVPPSPD 120
QY 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPRASISGAMVRLPEDDVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FFGGMPKPRASISGAMVRLPEDDVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 9

US-10-123-904-362
Sequence 362, Application US/10123904
Publication No. US20030022328A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C54
CURRENT APPLICATION NUMBER: US/10/123,904
PRIORITY FILING DATE: 2002-04-16
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-123-904-362

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPCTPGHHSOGCLPGDRGDRDCAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPCTPGHHSOGCLPGDRGDRDCAAG 60
QY 61 APGEKGGGRPGRLPGRRDPPGRCGACGAGTGPAGECVPPRPSAFSAKRSESRVPPSPD 120
DB 61 APGEKGGGRPGRLPGRRDPPGRCGACGAGTGPAGECVPPRPSAFSAKRSESRVPPSPD 120
QY 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180

DB 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180

QY 181 FFGGMPKPRASISGAMVRLPEDDVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FFGGMPKPRASISGAMVRLPEDDVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 10

US-10-140-470-362
Sequence 362, Application US/10140470
Publication No. US2003002231A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C160
CURRENT APPLICATION NUMBER: US/10/140,470
PRIORITY FILING DATE: 2002-05-06
Prior Application removed - See File Wrapper
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-140-470-362

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPCTPGHHSOGCLPGDRGDRDCAAG 60
DB 1 MRPLVLLLLGLAAGSPPLDDNKIPSLCPGHPGLPCTPGHHSOGCLPGDRGDRDCAAG 60
QY 61 APGEKGGGRPGRLPGRRDPPGRCGACGAGTGPAGECVPPRPSAFSAKRSESRVPPSPD 120
DB 61 APGEKGGGRPGRLPGRRDPPGRCGACGAGTGPAGECVPPRPSAFSAKRSESRVPPSPD 120
QY 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180
DB 121 APLEPDRVLVNEQGHYDAVTGKFTCOVPGVYFAVHATVYRASLQDFDLVKNGESIASFFQ 180
QY 181 FFGGMPKPRASISGAMVRLPEDDVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
DB 181 FFGGMPKPRASISGAMVRLPEDDVWVQVGVGYIGIYASIKTDSFSGFLVYSMDHSSP 240
QY 241 VFA 243
DB 241 VFA 243

RESULT 11
US-09-796-753-68

```
Sequence 68, Application US/09796753
Publication No. US20030027898A1
GENERAL INFORMATION:
APPLICANT: McCarthy, Sean A.
TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
FILE REFERENCE: 7853-227-999
CURRENT APPLICATION NUMBER: US/09/796,753
PRIOR FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: 09/183,175
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 09/223,094
PRIOR FILING DATE: 1998-12-30
PRIOR APPLICATION NUMBER: 09/223,546
PRIOR FILING DATE: 1998-12-30
PRIOR APPLICATION NUMBER: 09/224,246
PRIOR FILING DATE: 1998-12-30
PRIOR APPLICATION NUMBER: 09/259,388
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/122,458
PRIOR FILING DATE: 1999-03-01
PRIOR APPLICATION NUMBER: 09/312,359
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 09/336,536
PRIOR FILING DATE: 1999-06-18
PRIOR APPLICATION NUMBER: 09/342,687
PRIOR FILING DATE: 1999-06-29
PRIOR APPLICATION NUMBER: 09/345,464
PRIOR FILING DATE: 1999-06-30
PRIOR APPLICATION NUMBER: 09/365,164
PRIOR FILING DATE: 1999-07-30
PRIOR APPLICATION NUMBER: 09/399,723
PRIOR FILING DATE: 1999-09-20
PRIOR APPLICATION NUMBER: 09/409,634
PRIOR FILING DATE: 1999-09-30
PRIOR APPLICATION NUMBER: 09/471,179
PRIOR FILING DATE: 1999-12-23
PRIOR APPLICATION NUMBER: 09/474,071
PRIOR FILING DATE: 1999-12-29
PRIOR APPLICATION NUMBER: 09/474,072
PRIOR FILING DATE: 1999-12-29
PRIOR APPLICATION NUMBER: 09/514,010
PRIOR FILING DATE: 2000-02-25
PRIOR APPLICATION NUMBER: 09/516,745
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 09/572,002
PRIOR FILING DATE: 2000-05-14
PRIOR APPLICATION NUMBER: 09/597,993
PRIOR FILING DATE: 2000-06-19
PRIOR APPLICATION NUMBER: 09/599,596
PRIOR FILING DATE: 2000-06-22
PRIOR APPLICATION NUMBER: 09/630,334
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: 09/606,565
PRIOR FILING DATE: 2000-06-29
PRIOR APPLICATION NUMBER: 09/606,317
PRIOR FILING DATE: 2000-06-29
PRIOR APPLICATION NUMBER: 09/665,666
PRIOR FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: 09/677,751
PRIOR FILING DATE: 2000-09-30
NUMBER OF SEQ ID NOS: 162
SEQ ID NO 68
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
US-09-796-753-68

Query Match
Best Local Similarity 100.0%; Score 243; DB 9; Length 243;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Db
1 MRPLVLLLLGLAAGSPPLDNNKIPSLCPGHRLPCTPGHHSQGLPGRDGRDGAAG 60
QY
61 APGEKGGGRBGLPGRGDPGPRGEGAPGPPGAGECSVPPRSAFSAKRSESRVPPSD 120
Db
61 APGEKGGGRBGLPGRGDPGPRGEGAPGPPGAGECSVPPRSAFSAKRSESRVPPSD 120
QY
121 APLEFDRVLVNEQGHDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ 180
Db
121 APLEFDRVLVNEQGHDAVTGKFTCOVPGVYFAVHATVYRASLQFDLVKNGESIASFFQ 180
QY
181 FFGGMPKPSASISGAMVRLPEDDQVWVGVDYIGIYASIKTDSFGFLVYSQWHSPP 240
Db
181 FFGGMPKPSASISGAMVRLPEDDQVWVGVDYIGIYASIKTDSFGFLVYSQWHSPP 240
QY
241 VPA 243
Db
241 VPA 243
```

```
RESULT 12
US-10-175-746-362
Sequence 362, Application US/10175746
Publication No. US20030027270A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Collin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C353
CURRENT APPLICATION NUMBER: US/10/175,746
PRIOR FILING DATE: 2002-06-19
PRIOR APPLICATION NUMBER: 09/677,751
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-175-746-362

Query Match
Best Local Similarity 100.0%; Score 243; DB 9; Length 243;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 241 VFA 243
Db 241 VFA 243

RESULT 13

US-10-176-918-362
Sequence 362, Application US/10176918
Publication No: US20030027275A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C382
CURRENT APPLICATION NUMBER: US/10/176,918
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-176-918-362

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPRGRDGRGRCAGC 60
Db 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPRGRDGRGRCAGC 60
QY 61 APGEKGGGRGRLGPRGDDCPRGEGAGPAGPTGPGAGCSVPPRSASFSAKRSSESRVPPSPD 120
Db 61 APGEKGGGRGRLGPRGDDCPRGEGAGPAGPTGPGAGCSVPPRSASFSAKRSSESRVPPSPD 120
QY 121 APLEPDRVLNVEGCHYDAVTGKFTQVPGVYFAVHATYRASLQPDLYKNGESIASFEQ 180
Db 121 APLEPDRVLNVEGCHYDAVTGKFTQVPGVYFAVHATYRASLQPDLYKNGESIASFEQ 180
QY 181 FFGGMPKRPASLSGCAWRLPEPDQWVWGVGDYIGIYASIKTDSFSGFLYSDWHSSP 240
Db 181 FFGGMPKRPASLSGCAWRLPEPDQWVWGVGDYIGIYASIKTDSFSGFLYSDWHSSP 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 14

US-10-176-921-362
Sequence 362, Application US/10176921
Publication No: US20030027276A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen

APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3330R1C288
CURRENT APPLICATION NUMBER: US/10/176,921
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 362
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-176-921-362

Query Match 100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Caps 0;

QY 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPRGRDGRGRCAGC 60
Db 1 MRPLVLLLLGLAAGSPPLDNDKIPSLCPGHPGLPTGPHHGSQGLPRGRDGRGRCAGC 60
QY 61 APGEKGGGRGRLGPRGDDCPRGEGAGPAGPTGPGAGCSVPPRSASFSAKRSSESRVPPSPD 120
Db 61 APGEKGGGRGRLGPRGDDCPRGEGAGPAGPTGPGAGCSVPPRSASFSAKRSSESRVPPSPD 120
QY 121 APLEPDRVLNVEGCHYDAVTGKFTQVPGVYFAVHATYRASLQPDLYKNGESIASFEQ 180
Db 121 APLEPDRVLNVEGCHYDAVTGKFTQVPGVYFAVHATYRASLQPDLYKNGESIASFEQ 180
QY 181 FFGGMPKRPASLSGCAWRLPEPDQWVWGVGDYIGIYASIKTDSFSGFLYSDWHSSP 240
Db 181 FFGGMPKRPASLSGCAWRLPEPDQWVWGVGDYIGIYASIKTDSFSGFLYSDWHSSP 240
QY 241 VFA 243
Db 241 VFA 243

RESULT 15

US-10-137-865-362
Sequence 362, Application US/10137865
Publication No: US20030032155A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Beresini, Maureen
APPLICANT: Deforge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K

```

; APPLICANT: Wood, William
; APPLICANT: Zhang, Zhen
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C154
; CURRENT APPLICATION NUMBER: US/10/137,865
; PRIOR APPLICATION DATE: 2002-05-03
; PRIOR APPLICATION removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 362
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-865-362

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Query Match      100.0%; Score 243; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 7.9e-202;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPLVLLGLAGSPPLDNNKIPSLCPGHPGLPCTPGHSGSLPGRDGRDGAAG 60
   1 MRPLVLLGLAGSPPLDNNKIPSLCPGHPGLPCTPGHSGSLPGRDGRDGAAG 60
Db 1 MRPLVLLGLAGSPPLDNNKIPSLCPGHPGLPCTPGHSGSLPGRDGRDGAAG 60
QY 61 APGEKGEGRPGIPGRGDPGRGEGAGPAGPTGPAECSSVPPRSASFSAKRSESRVPPSD 120
   61 APGEKGEGRPGIPGRGDPGRGEGAGPAGPTGPAECSSVPPRSASFSAKRSESRVPPSD 120
Db 61 APGEKGEGRPGIPGRGDPGRGEGAGPAGPTGPAECSSVPPRSASFSAKRSESRVPPSD 120
QY 121 APLEFDRLVNEQGHDAVTGKFTGOVPGVYTFVAHATVYRASLOFDLVKNGESTIASFFQ 180
   121 APLEFDRLVNEQGHDAVTGKFTGOVPGVYTFVAHATVYRASLOFDLVKNGESTIASFFQ 180
Db 121 APLEFDRLVNEQGHDAVTGKFTGOVPGVYTFVAHATVYRASLOFDLVKNGESTIASFFQ 180
QY 181 FFGGMPKPRASLSGAMVRLPEDOVWVGVDYIGIYASIKTDSFSGFLVYSDWHSSP 240
   181 FFGGMPKPRASLSGAMVRLPEDOVWVGVDYIGIYASIKTDSFSGFLVYSDWHSSP 240
Db 181 FFGGMPKPRASLSGAMVRLPEDOVWVGVDYIGIYASIKTDSFSGFLVYSDWHSSP 240
QY 241 VFA 243
   241 VFA 243
Db 241 VFA 243

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Search completed: June 18, 2003, 15:15:19
 Job time : 54 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 02:43:56 ; Search time 3598 Seconds

(without alignments)
11138.011 Million cell updates/sec

Title: US-09-943-851A-41

Perfect score: 1377

Sequence: 1 gactagctctctcttgagctc.....aaaaaaaaaaaaaaaaaaaaa 1377

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenBank:*

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2: gb-hcg:*

3: gb-in:*

4: gb-om:*

5: gb-ov:*

6: gb-pat:*

7: gb-ph:*

8: gb-pl:*

9: gb-pr:*

10: gb-ro:*

11: gb-sts:*

12: gb-sy:*

13: gb-un:*

14: gb-vl:*

15: em-ba:*

16: em-fun:*

17: em-hum:*

18: em-in:*

19: em-mu:*

20: em-om:*

21: em-or:*

22: em-ov:*

23: em-pat:*

24: em-ph:*

25: em-pl:*

26: em-ro:*

27: em-sts:*

28: em-un:*

29: em-vl:*

30: em-hcg-hum:*

31: ax464228

32: em-hcg-hum:*

33: em-hcg-mus:*

34: em-hcg-pln:*

35: em-hcg-rod:*

36: em-hcg-mam:*

37: em-hcg-vrt:*

38: em-sy:*

39: em-htgo-hum:*

40: em-htgo-mus:*

41: em-htgo-other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1377	100.0	1377	6	AX464228
2	1347.4	97.9	1370	9	BC029485
3	1322.2	96.0	1337	9	AF329841
4	1322.2	96.0	1347	6	AR138193
5	1064.4	77.3	1068	9	HSW800923
6	909.8	66.1	191362	9	AP003396
7	909.8	66.1	219574	9	AP003396
8	896.2	65.1	182429	2	AP001557
9	896.2	50.6	4220	10	AF469650
10	694	50.4	173038	2	AP001003
11	693.6	50.4	1234	10	BC025174
12	691.2	50.2	1271	10	BC023068
13	612.8	44.5	198902	2	AP001156
14	513.4	37.3	173657	2	AC112557
15	504	36.6	729	6	AR138195
16	500.4	36.3	249283	2	AC124577
17	472.4	34.3	150653	2	AC107174
18	439.4	31.9	441	9	HUM29292F04
19	187.4	13.6	150653	2	AC107174
20	161.8	11.8	2288	9	AB055132
21	107	7.8	1086	5	AB067770
22	100.6	7.3	4443	9	AK074129
23	100.6	7.3	4908	6	AX430953
24	100.6	7.3	128133	9	AL138787
25	100.6	7.3	173817	2	AC012141
26	99.6	7.2	855	6	AX039974
27	97.4	7.1	1938	9	HUM286GLE
28	92.6	6.7	152147	9	AC091842
29	92.6	6.7	153248	9	AC112191
30	91.6	6.7	1161	6	AX039965
31	91.6	6.7	1176	9	AF329836
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37	90.6	6.6	1276	6	AX358519
38	90.6	6.6	1276	6	AX358519
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43	88	6.4	1393	9	AF329838
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45	86.8	6.3	178850	9	AL359736

ALIGNMENTS

RESULT 1
AX464228
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS
Baker, K.P., Beresini, M., DeForge, L., Desnoyers, L., Filvaroff, E.,
Gao, W.O., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,
Sherwood, S., Smith, V., Stewart, T.A., Tamas, D., Watanabe, C.K.,

TITLE Wood, M.L. and Zhang, Z.
JOURNAL Secreted and transmembrane polypeptides and nucleic acids encoding
Patent: WO 0140466-A 361 07-JUN-2001.
Genentech Inc. (US)
FEATURES Location/Qualifiers
source 1. 1377
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
BASE COUNT 251 a 422 c 472 g 232 t
ORIGIN

Query Match 100.0%; Score 1377; DB 6; Length 1377;
Best Local Similarity 100.0%; Pred. No. 1.3e-227;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 GACTAGTCTCTTGTGAGTCTGGAGAGCAAGCGAGCGGAGGAGCGAACCAGAGC 60
DB 1 GACTAGTCTCTTGTGAGTCTGGAGAGCAAGCGAGCGGAGGAGCGAACCAGAGC 60
OY 61 TGGGGTACGCGACAGGGGAGGGGCGCTGCGCGGAGAAAGCGCGGAGGAGCAGC 60
DB 61 TGGGGTACGCGACAGGGGAGGGGCGCTGCGCGGAGAAAGCGCGGAGGAGCAGC 60
OY 121 CCAACTGAGAGGTCGCGAGTACGAGAGCGCGCGAAGAGAGGCGCATGGGAGAGG 180
DB 121 CCAACTGAGAGGTCGCGAGTACGAGAGCGCGCGAAGAGAGGCGCATGGGAGAGG 180
OY 181 GGGACTGCGAGAGAGCGCGCGGCTCGGGCTCCGCTCCGAGCGCTATGAGCGCACTCT 240
DB 181 GGGACTGCGAGAGAGCGCGCGGCTCGGGCTCCGCTCCGAGCGCTATGAGCGCACTCT 240
OY 241 CGTCTGCTGCTCTGCTGGGCTCGCGCGGCTCGCGCGCGCGCGCGCGCGCGCGCG 300
DB 241 CGTCTGCTGCTCTGCTGGGCTCGCGCGGCTCGCGCGCGCGCGCGCGCGCGCGCG 300
OY 301 CAGCCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
DB 301 CAGCCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 360
OY 361 CTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
DB 361 CTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
OY 421 AGCGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
DB 421 AGCGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
OY 481 GCGCGGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
DB 481 GCGCGGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
OY 541 CTTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
DB 541 CTTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
OY 601 CGACCGCGCTCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
DB 601 CGACCGCGCTCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
OY 661 CCAAGTGGCGGCTCTGAGTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 720
DB 661 CCAAGTGGCGGCTCTGAGTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 720
OY 721 GTTTGATCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780
DB 721 GTTTGATCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 780
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RESULT 2
LOCUS BC029485
DEFINITION Homo sapiens, C1g and tumor necrosis factor related protein 5,
 clone MGC:32938 IMAGE:5278184, mRNA, complete cds.
ACCESSION BC029485.1 GI:20810468
VERSION MGC.
KEYWORDS Homo sapiens.
SOURCE Homo sapiens.
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE 1 (bases 1 to 1370)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (01-MAY-2002) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA
REMARK NIH-MGC project URL: <http://mgc.ncl.nih.gov>
COMMENT Contact: MGC help desk
 Email: cgabbs-remail.nih.gov
 Tissue procurement: Miklos Palkovits, M.D., Ph.D.
 cDNA Library Preparation: Michael J. Brownstein (NIGRI) & Shliraki
 Toshiyuki and Piero Carninci (RIKEN)
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
 DNA Sequencing by: Sequencing Group at the Stanford Human Genome
 Center, Stanford University School of Medicine, Stanford, CA 94305
 Web site: <http://www-shgc.stanford.edu>
 Contact: (Dickson, Mark) mdedpaxil.stanford.edu
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
 R. M.
 Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LNLN at: <http://image.llnl.gov>
 Series: IRAC Plate: 48 Row: h Column: 14
 This clone was selected for full length sequencing because it

40 CGCAGAGGACCGAACCAGGACTGGGGTGAACGGCCAGGGCGCCCTTGCCGGGAGA 99
 11 CGAGAGGGAGCGAACCAGGACTGGGGTGAACGGCCAGGGGGCGCTGGCCGGGAGA 70
 100 AGGCGGGGGCTTGGACACCACTGGAGGGTCCGAGTAGGAGACGCCCAAGAG 159
 71 AGGCGGGGGCTTGGAGACCACTGGAGGGTCCGAGTAGGAGACGCCCAAGAG 130
 160 GCCATGGGGAGCCGGAGGGGGGACTGAGAGAGACCCCGGCTCCGGGCTCCGGTGC 219
 131 GCCATGGGGAGCCGGAGGGGGAGCTCGAGAGAGACCCCGGCTCCGGGCTCCGGTGC 190
 220 CAGCGCTAGAGGCCCACTCTGCTCTGCTCTCTCTGGGCTTGGCGGCGCGCTCGGCCCC 279
 191 CAGCGCTAGAGGCCCACTCTGCTCTCTCTCTCTCTGGGCTTGGCGGCGCGCTCGGCCCC 250
 280 ACTGAGACGACAAGATGCCACGCTGTGCGCCGGGGCACCCCGGCTTCCAGCACGCC 339
 251 ACTGAGACGACAAGATGCCACGCTGTGCGCCGGGGCACCCCGGCTTCCAGCACGCC 310
 340 GGGCCACCATGGCAGGCCGCTTGC GGCGCCGCGATGTCGGGAGGGCGCGAGCGCGCC 399
 311 GGGCCACCATGGCAGGCCGCTTGC GGCGCCGCGATGTCGGGAGGGCGCGAGCGCGCC 370
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Db	731	CTCCAGTTTTCGGGGGGGTGGCCCAAGCCAGCTGCTCTGGGGGGGGCCATGTGTAC	790
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Db	791	GCTGGAGCCTTGAAGACCAAGTGTGGGTGACAGTGGGTGTGGGTGACATCATTTGGCATCTA	850
OY	880	TGCCAGCATCAAGACACACAGCAACCTTTCGCCGATTTTCTGCTGTACTCCGATGGCACAG	939
Db	851	TGCCAGCATCAAGACACACAGCAACCTTTCGCCGATTTTCTGCTGTACTCCGATGGCACAG	910
OY	940	CTCCCGACCTTTTGCTTACTGCCCCATGCAAGTAGAGCTCATGCTCCTACCTCTAGAAAG	999
Db	911	CTCCCGACCTTTTGCTTACTGCCCCATGCAAGTAGAGCTCATGCTCCTACCTCTAGAAAG	970
OY	1000	AGGGTGTAGAGGCTGACAAACAGTATTCAGAGAGGCTTGCCCCCTTGGAATATTGTGA	1051
Db	971	AGGGTGTAGAGGCTGACAAACAGTATTCAGAGAGGCTTGCCCCCTTGGAATATTGTGA	1031
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Db	1031	TGACTAGGAGAGTGGGGTAGAGCACTTCCTGCTGCTGCTGGCGGACAGAAATGGCAACAT	1090
OY	1120	GGCGTCTGGGATCCAGCTGTGCGACACATGGGCGAGTGGATTTTCTGCCAAGACAG	1175
Db	1091	GGCGTCTGGGATCCAGCTGTGCGACACATGGGCGAGTGGATTTTCTGCCAAGACAG	1155
OY	1180	AGGAGTGTCTGTGCTGGCAAGTGTAAATGCCCAAGTTGCTGTGTCAGAGAGCCACGG	1235
Db	1151	AGGAGTGTCTGTGCTGGCAAGTGTAAATGCCCAAGTTGCTGTGTCAGAGAGCCACGG	1210
OY	1240	TGGGGTCTCTCTTCTCTGCTGCTCTGCTTCTGTGATCTTCCACACCCCTCTGCTCTCT	1299
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RESULT 4					
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DEFINITION	Sequence 1 from patent US 6197930.				
ACCESSION	ARI38193				
VERSION	ARI38193.1	GI:14479702			
KEYWORDS					
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	I (bases 1 to 1347)				
TITLE	Sheppard, P.O., and Humes, J.M.				
JOURNAL	Adipocyte-specific protein homologs				
FEATURES	Patent: US 6197930-A 1 06-MAR-2001;				
source	Location/Qualifiers				
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BASE COUNT	235 a	421 c	465 g	226 t	
ORIGIN					

Query Match	Best Local Similarity	Score 1322.2	DB 6	Length 1347
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Db	11	CGAGAGGAGACCAACCGACACTGCGGTGACGCGAGGCGAGGGCGGCTGTGCGCGGGGAGA	70	
QY	100	AGCGCGGGGGCTGTGACACACCACTGGAGGGCTCGGAGTAGCGAGCGCCCGCAGAGGAC	158	

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Db      71 AGCCGGGGGCTGGAGAGACCAACATGAGGCTCCGAGTAGCGAGCGCCCGGAAGAG 130
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Db      131 GCCATCGGGAGAGCGGAGGGGAGCTGCGAGAGAGACCCCGGCTCCGGCTCCCGGTGC 190
Qy      220 CAGCGGATGAGGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 279
Db      191 CAGCGGATGAGGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 250
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Db      251 ACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 310
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Db      311 GGGCCAGCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 370
Qy      400 GCGCGGGGCTCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 459
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REFERENCE 1 (bases 1 to 1068)
            Ottenwälder, B., Obermaier, B., Mewes, H.W., Gassenhuber, J. and
            Wiemann, S.
            Direct Submission
            Submitted (15-AUG-1999) MIPS, Am Klopfersplitz 18a, D-82152
            Martinsried, GERMANY
            Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
            Research Center (DKFZ). Email: s.wiemann@dkfz-heidelberg.de;
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            (DKFZp586B0621) is available at the RZPD in Berlin. Please contact
            Berlin-Charlottenburg, GERMANY. Email: clone@rzpd.de Further
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 Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
 Homo sapiens genomic DNA
 Published only in Database (2002)
 2 (bases 1 to 191362)
 Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
 Direct Submission
 Submitted (12-MAR-2001) Masahira Hattori, The Institute of Physical
 and Chemical Research (RIKEN), Genomic Sciences Center (GSC);
 1-7-22 Suenhiro-chou,Tsukumi-ku, Yokohama, Kanagawa 230-0045, Japan
 (E-mail:hattori@psc.riken.go.jp, URL:http://hnp.gsc.riken.go.jp/
 Tel:81-45-503-9111, Fax:81-45-503-9170)
 This work was done in collaboration with Arai, Y., Kubo, T. and
 Ohki, M.
 National Cancer Center Research Institute
 Cancer Genomic Division
 5-1-1, Tsukiji, Chuo-ku, Tokyo, JAPAN
 zip: 104-0045
 phone: 81-3-3542-2511 ex 4752, fax: 81-3-3542-0688 e-mail:
 yarai@nci.go.jp.
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            Hattori,M., Toyoda,A., Taylor,T.D., Fujiyama,A., Yada,T.,
            Totoki,Y., Watanabe,H. and Sakaki,Y.
            Homo sapiens 219,574 genomic DNA of 11q
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            2 (bases 1 to 219574)
AUTHORS    Hattori,M., Toyoda,A., Taylor,T.D., Fujiyama,A., Yada,T.,
            Totoki,Y., Watanabe,H. and Sakaki,Y.
TITLE      Direct Submision
JOURNAL    Submitted (24-NOV-2000) Masahira Hattori, The Institute of Physical
            and Chemical Research (RIKEN), Genomic Sciences Center (GSC),
            1-7-22 Suenho-chou,Tsuri-ku, Yokohama, Kanagawa 230-0045, Japan
            (E-mail:hattori@gs.c.riken.go.jp, URL:http://hgp.gs.c.riken.go.jp/,
            Tel:81-45-503-9111, Fax:81-45-503-9170)
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Contamination: none detected
non-ACGT bases: none
Additional author information
Arai,Y., Kudo,T., Onki,M.
National Cancer Center Research Institute
Cancer Genomic Division
5-1-1, Tsukiji, Chuo-ku, Tokyo, JAPAN
zip: 104-0045
phone: +81-3-3542-2511 ex4752, fax: +81-3-3542-0688 e-mail:
yara@ncc.go.jp.
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 Kameya,S., Hawes,N.L., Chang,B., Heckenlively,J.R., Naggert,J.K.
 and Nishina,P.M.
 Mfrp, a gene encoding a frizzled related protein, is mutated in the
 mouse retinal degeneration 6
 Hum. Mol. Genet. 11 (16), 1879-1886 (2002)
 12140390
 2 (bases 1 to 4220)
 Kameya,S., Naggert,J.K. and Nishina,P.M.
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Best Local Similarity 98.8%: Pred. No. 4e-110;
Matches 741; Conservative 0; Mismatches 5; Indels 4; Gaps 4;

OY 604 CCGCGTCGTGTGAAGCAGCAGCAATTACGAGCCCTCACCGCAAGTTCACTGCGCA 663
Db 166758 CCGCGTCGTGTGAAGCAGCA-GGACATTCAGCAGCCGTCACCGCAAGTTCACTGCGCA 166816
OY 664 GGTCCCTGGGTCTACTACTTCCGCTGCATGCACCGCTTACCGGGCCAGCCCTGACGT 723
Db 166817 GGTCCCTGGGTCTACTACTTCCGCTGCATGCACCGCTTACCGGGCCAGCCCTGACGT 166876
OY 724 TGATCTGTGAAGATGGCCAAATTCATTCCTTTCTTCCAGTTTTC-GGGGGGTGGC 782
Db 166877 TGATCTGTGAAGATGGCCAAATTCATTCCTTTCTTCCAGTTTTC-GGGGGGTGGC 166936
OY 783 CCAAGCCAGCCTCGCTCTCGGGGGGGCCATGTGTAGAGCTGAGAGCTGAGACCAAGTGT 842
Db 166937 CCAAGCCAGCCTCGCTCTCGGGGGGGCCATGTGTAGAGCTGAGAGCTGAGACCAAGTGT 166996
OY 843 GGGTCGAGGTGGTGTGGTGTGACTACATTCGATTCGACAGCATCAAGAGACAGACAGA 902
Db 166997 GGGTCGAGGTGGTGTGGTGTGACTACATTCGATTCGACAGCATCAAGAGAGACAGACAGA 167056
OY 903 CCTTCTCCGATTTCTGTGTACTCGGACGACGCTCCCAAGCTTTTCTTGTAGTGC 962
Db 167057 CCTTCTCCGATTTCTGTGTACTCGGACGACGCTCCCAAGCTTTTCTTGTAGTGC 167116
OY 963 CACTGCAAGTGAGCTCATCTCACTCTCAAGAGAGAGGTGTGAGGCTGACCAACAGG 1022
Db 167117 CACTGCAAGTGAGCTCATCTCACTCTCAAGAGAGAGGTGTGAGGCTGACCAACAGG 167176
OY 1023 TCAT-CCAGAGAGGCGGCCCCC-TGCAATATTGTGAATGACTAGGAGGTGGGTAGA 1080
Db 167177 TCATCCAGAGAGGCGGCCCCC-TGCAATATTGTGAATGACTAGGAGGTGGGTAGA 167236
OY 1081 GCACCTCTCCGTCTCTGCTGCGCAGGAATGAGACAGTGGTGTGCTGATCAGGTCTG 1140
Db 167237 GCACCTCTCCGTCTCTGCTGCGCAGGAATGAGACAGTGGTGTGCTGATCAGGTCTG 167296

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OY 1141 GCACATGCGGCACTGCTGATTTCTGCCCAAGACAGAGAGTGTGCTGCGCA 1200
Db 167297 GCACATGCGGCACTGCTGATTTCTGCCCAAGACAGAGAGTGTGCTGCGCA 167356
OY 1201 GTTAAGTCCCGAGTTGCTGTGTCCAGAGAGCCACAGTGGGTGCTCTTCTGTGTC 1260
Db 167357 GTTAAGTCCCGAGTTGCTGTGTCCAGAGAGCCACAGTGGGTGCTCTTCTGTGTC 167416
OY 1261 CTCTGCTTCTGTGATCTCCCAACCCCTCTGCTGCTGGGCGGACCTTTTCTGACA 1320
Db 167417 CTCTGCTTCTGTGATCTCCCAACCCCTCTGCTGCTGGGCGGACCTTTTCTGACA 167476
OY 1321 GATCAGTCATTAACCTTAAGACCTTCATA 1350
Db 167477 GATCAGTCATTAACCTTAAGACCTTCATA 167506

RESULT 11
BC025174
LOCUS
DEFINITION
MUS musculus, clone MGC:36714 IMAGE:3978387, mRNA, complete cds.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
MUS musculus.
house mouse.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 1234)
AUTHORS
Strausberg, R.
TITLE
Direct Submission
JOURNAL
Submitted (05-MAR-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: http://mgc.ncl.nih.gov
Contact: MGC help desk
Email: cgaabs-remail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amgdbcm.tmc.edu
Gunnarone, P.H., Garcia, A.M., Lu, X., Huylk, S.W., Hale, S.M.,
Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M.,
Richards, S., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: http://Image.llnl.gov
Series: IRAC Plate: 61 Row: F Column: 24
This clone was selected for full length sequencing because it
passed the following selection criteria: Hexamer frequency ORF
analysis.

FEATURES
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/db_xref="taxon:10090"
/map="FVB/N"
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model. 10 month old virgin mouse. Taken by biopsy."
/clone_lib="NCI CGAP_Mam1"
/lab_host="DH10B"
/note="vector: pCMV-Sport6"
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BASE COUNT      258 a 375 c 378 g 260 t
ORIGIN

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Query Match      50.2% Score 691.2; DB 10; Length 1271;
Best Local Similarity 77.9%; Pred. No. 1.8e-109;
Matches 916; Conservative 0; Mismatches 238; Indels 22; Gaps 6;

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115 GAGAGATTCCTGAGCTCTGAGCCCTCCGGGCTCACCACCATAGGCGCACTTCTGCTTC 174
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249 TGCCTCTGGGCGCTGGCGGGCGGCTGGCCCCACCTGAGACACAAAGATCCCACTCT 308
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175 TCCTTCTGGGCTTGTGTGAGGCTCTCTCTCTGAGACACAAAGATCCCACTCTG 234
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309 GCCCGGGGACACCCCGCTTCAGGACACCGGCGCCACCATGGAGCCGAGGCTTGGCG 368
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235 GTCCCGGAGAGCCCGGCTTCAGGACACCATGATGCGACGCGGCGCTGCTG 294
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369 GCCCGGATGGCGCGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 428
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295 GCCGTGACGGCGCTGATGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 354
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429 GCGGAGAGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 488
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355 GCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 414
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549 CCAAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 608
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    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
609 TCGTGTGAACGAGACGAGCATTAACGAGCGGCGGCGGCGGCGGCGGCGGCGG 668
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969 AAGAGTACTGATGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1028
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QY      1089 GCTCTGCTGTGGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1148
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QY      1149 GGGAGTGGCGGATTTCTGCTCCCAAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1208
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DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

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NOTE: This is a 'working draft' sequence. It currently consists of 42 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs N, but the exact sizes of the gaps

are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

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1 20627 contig of 20627 bp in length
20728 31817 contig of 11090 bp in length
31918 41131 contig of 9214 bp in length
41232 49745 contig of 8514 bp in length
49846 59457 contig of 9612 bp in length
59558 66804 contig of 7247 bp in length
66905 73970 contig of 7066 bp in length
74071 81007 contig of 6937 bp in length
81108 93250 contig of 5830 bp in length
87421 97965 contig of 4615 bp in length
93351 102941 contig of 5976 bp in length
103042 113391 contig of 4274 bp in length
109118 118783 contig of 5358 bp in length
118884 124241 contig of 5425 bp in length
124342 129766 contig of 5607 bp in length
129867 135473 contig of 5012 bp in length
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140686 144028 contig of 3342 bp in length
144128 147923 contig of 3796 bp in length
148024 152461 contig of 4438 bp in length
152562 155444 contig of 2883 bp in length
155445 158721 contig of 3177 bp in length
158822 162903 contig of 4082 bp in length
163004 166121 contig of 3118 bp in length
166222 169851 contig of 3630 bp in length
169952 172048 contig of 2097 bp in length
172149 175332 contig of 3184 bp in length
175433 177914 contig of 2482 bp in length
178015 179976 contig of 1629 bp in length
179976 181604 contig of 1861 bp in length
181705 183951 contig of 2247 bp in length
183952 185927 contig of 1876 bp in length
185928 186027 contig of 1843 bp in length
186028 187870 contig of 1843 bp in length
187871 187970 contig of 1843 bp in length
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189592 191169 contig of 1478 bp in length
191170 191269 contig of 1478 bp in length
191270 192527 contig of 1258 bp in length
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194389 195658 contig of 1270 bp in length
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197708 197807 contig of 1949 bp in length
197808 198902 contig of 1095 bp in length
198902 199027 contig of 1095 bp in length
199027 20627 contig of 20627 bp in length
20628 20727 contig of 100 bp
20728 31817 contig of 11090 bp in length
31818 31917 contig of 100 bp
31918 41131 contig of 9214 bp in length
41132 41231 contig of 100 bp
41232 49745 contig of 8514 bp in length
49746 49845 contig of 100 bp
49846 59457 contig of 9612 bp in length
59458 59557 contig of 100 bp
59558 66804 contig of 7247 bp in length
66805 66904 contig of 100 bp
66905 73970 contig of 7066 bp in length
73971 74070 contig of 100 bp
74071 81007 contig of 6937 bp in length
81008 81107 contig of 100 bp
81108 87320 contig of 6213 bp in length
87321 87420 contig of 100 bp
87421 93250 contig of 5830 bp in length
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Sequence updated (26-May-2000).

* NOTE: This is a 'working draft' sequence. It currently consists of 42 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

FEATURES

source

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* 93251 93350: gap of 100 bp
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* 103042 109017: contig of 5976 bp in length
* 109018 109117: gap of 100 bp
* 109118 113391: contig of 4274 bp in length
* 113392 113491: gap of 100 bp
* 113492 118783: contig of 5358 bp in length
* 118784 124241: contig of 5425 bp in length
* 124242 124341: gap of 100 bp
* 124342 129766: contig of 5607 bp in length
* 129767 129866: gap of 100 bp
* 129867 135473: contig of 5012 bp in length
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* 135574 140585: contig of 5012 bp in length
* 140586 140685: gap of 100 bp
* 140686 144028: contig of 3342 bp in length
* 144028 144127: gap of 100 bp
* 144128 147923: contig of 3796 bp in length
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* 148024 152461: contig of 4438 bp in length
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* 152562 155444: contig of 2883 bp in length
* 155445 155444: gap of 100 bp
* 155445 158721: contig of 3177 bp in length
* 158722 158821: gap of 100 bp
* 158822 162903: contig of 4082 bp in length
* 162904 163003: gap of 100 bp
* 163004 166121: contig of 3118 bp in length
* 166122 166221: gap of 100 bp
* 166222 169851: contig of 3630 bp in length
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* 175433 177914: contig of 2482 bp in length
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* 178015 179976: contig of 1861 bp in length
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* 179976 181604: contig of 1876 bp in length
* 181605 181704: gap of 100 bp
* 181705 183951: contig of 2247 bp in length
* 183952 184051: gap of 100 bp
* 184052 185927: contig of 1876 bp in length
* 185928 186027: gap of 100 bp
* 186028 187870: contig of 1843 bp in length
* 187871 187970: gap of 100 bp
* 187971 189591: contig of 1621 bp in length
* 189592 189691: gap of 100 bp
* 189692 191169: contig of 1478 bp in length
* 191170 191269: gap of 100 bp
* 191270 192527: contig of 1258 bp in length
* 192528 192627: gap of 100 bp
* 192628 194288: contig of 1661 bp in length
* 194289 194388: gap of 100 bp
* 194389 195658: contig of 1270 bp in length
* 195659 195758: gap of 100 bp
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* 197708 197807: gap of 100 bp
* 197808 198902: contig of 1095 bp in length.
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Location/Qualifiers

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*	5259	6306:	contlg of 1048 bp in length
*	6307	6406:	gap of unknown length
*	6407	7523:	contlg of 1117 bp in length
*	7524	7623:	gap of unknown length
*	7624	8631:	contlg of 1008 bp in length
*	8632	8731:	gap of unknown length
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*	30120	31550:	contlg of 1431 bp in length
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*	45594	47217:	contlg of 1924 bp in length
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Matches 71/7	Conservative 0	Mismatches 171	Indels 21	Gaps 8
QY	438	CGGAGCTGCCGGGACCTCGAGGGAGCCCCGGGCGCGAGGAGACCGGAGACCCCGGGGC	497	
Db	43765	CAGGACTACTGGGCGACGTCGGGGAGCCCGGCGCGTGGAGAGGACCGTGGGGG	4382	
QY	498	CCACCGGGCCCTGCGGGGAGTGTCTGGTGCCTCGCGATCCGCTTCAGCGCCAAAGCCT	557	
Db	43825	CTATCGGCGCTCGCGGGGAGTGTCTGGTGCCTCCGATCAGCTTCAGTCCAAAGCAT	4388	
QY	558	CCGAGAGCCGGGTGCCTCCGCGCTGACGACCCCTTGGCCCTTGACCCGGTCTGTGA	617	
Db	43885	CAGAGAGCCGGGTACTCCGCCAGCCGACACACCCCTACCTTGTGACCCTGGTCTCTCA	4394	
QY	618	ACGAGCAGGGGCAATTAGAGACCGCGCTACCGGCAAGTTCACTTCACCTGCAGTGGGCTCT	677	
Db	43945	ATGAGCAGGCAATTACGATGACCACTACCGGCAAGTTCACTTCACCTGCAGTGGGCTCT	4400	
QY	678	ACTACTTGCCTCCATGACCACCGTGTACCGGGCCAGCTCGAGTTGATCGGTGACAGA	737	
Db	44005	ACTACTTGTCTGCATGTGCACACTGTCTACCGGGCCAGCTTCACGTTGATCTTGTCAAAA	44064	
QY	738	ATGGCGAATCAATTGGCTCTCTTCTTCACATTTTTTGGGGGGTGGGCCAAAGCCAGCCTCGC	797	
Db	44065	ATGGCCAAATCAATAGCTTCTTCTTCACATTTTTTGGGGGGTGGGCCAAAGCCAGCCTCGC	44124	
QY	798	TCTCCGGGGGGGGCCATGTGTGAGCCTTGAGACCAATGTGTGGGTGACAGTGGGTG	857	
Db	44125	TCTCAGGGGGGTGAGTGTGAGAGCTTAAGAACCTGAGGACAGGTATGGTTCACAGTGGGTG	44184	
QY	858	TGGGTACTACATTGGCATCTATGCGCAGATCAAGACAGACCACTTTCGCGAATTC	917	

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Db      44185 TGGGTATTACATTTGACATCTATGCCAGATCAAAACAGACATACCTTCTGTGATTTC 44244
OY      918 TGTGTACTCCGACAGGACAGACAGTCCCAAGCTTTTGTCTTGTAGTCCCACTGCAAGTGAGC 977
Db      44245 TGTGTATTCTTACTGACAGACAGTCCCAAGCTTTTGTCTTGTAGTCCCACTGCAAGTGAGC 977
OY      978 TGTGTATTCTTACTGACAGACAGTCCCAAGCTTTTGTCTTGTAGTCCCACTGCAAGTGAGC 977
Db      44305 T--GGGACTTGTCTCTAG--TGAAGGTGTGACATGACACAGCGGCAATACAGAGAGGCT 1037
OY      1038 GGGCCCTTGGAAATATTTGTGAATGACATGAGAGGTGGGTAGAGACACTGCTCTGCT 1097
Db      44362 GG--CCCCGTGACATATGTGTATGATAGAAAGAGAGG--ACCCACCTCTGTGTCCCT 44418
OY      1098 GCTGGACAGAAATGGAAGAGAGTGTGTGATGACAGTGTGAGCAATGAGGAGAGTGG 1157
Db      44419 CCTGGCAATGMAATAG--TCAAGAGCTGTCTGAGAGTCAAGACAGCGGTGAGAGAGTTG 44476
OY      1158 CTGATTTTGTGCCCCAAGACAGAGAGTGTGTGTGCTGGAAGTGAATGCTCCCACTT 1217
Db      44477 CTGGGTTTCTGCCCCAGAGACTTGTGAATGACAGAG--GCTGGCAGCTGT-----GGA 44525
OY      1218 GCTGTGTGACAGAGAGGAGGAGTGTGTGTGCTGTCTGCTGCTGCTGCTGCTGCTGCTG 1277
Db      44526 ATCTGTGCTGACAGACAGGAGTGTGTGTGCTGTCTGCTGCTGCTGCTGCTGCTGCTG 1277
OY      1278 CTGCCCCAGC--CCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1335
Db      44586 TTTGACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1335
OY      1336 CTAGAGACC 1344
Db      44646 CTAGCAATCC 44654

RESULT 15
ARI38195
LOCUS      ARI38195
DEFINITION Sequence 10 from patent us 6197930.
ACCESSION ARI38195
VERSION    ARI38195.1 GI:14479704
KEYWORDS
SOURCE
ORGANISM   Unknown.
REFERENCE   1 (bases 1 to 729)
AUTHORS    Sheppard,P.O. and Humes,J.M.
TITLE      Adipocyte-specific protein homologs
JOURNAL    Patent: US 6197930-A 10 06-MAR-2001;
FEATURES
source      1..729
BASE COUNT 77 a 101 c 160 g 81 t 310 others
ORIGIN

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Query Match 36.6%; Score 504; DB 6; Length 729;
 Best Local Similarity 57.6%; Pred. No. 3.4e-77;
 Matches 419; Conservative 145; Mismatches 164; Indels 0; Gaps 0;

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Db      181 GCNCCNGNGARARAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240
OY      467 GGGCCGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 526
Db      241 GGNCCNMGNGNGARAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
OY      527 CCTCGGAGATCCGCTTACAGCGCCAAAGCCTCCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 586
Db      301 CCNCCNMGNSNCCNTTYSNCGNAAARMGNWSNAGARSNNGNTNCCNCCNCCNCCNCCNCCNCCN 360
OY      587 GCACCCCTTCCCTTCCAGCCGCTGTGTGTAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 646
Db      361 GCNCCNCCNCCNTTGTAGYMGNGNTNNGTNAAYGACARAGGAGGAGGAGGAGGAGGAGGAGGAG 420
OY      647 GGCAGGTACCTGCGCAGAGTGCCTGGGGTCTACTTCTGCGCTGCTGCTGCTGCTGCTGCTGCTG 706
Db      421 GGNAAATTTACNTGYCARGTNCCNCGNGNTNATYATYTGCGNCAVCGNACNCTATY 480
OY      707 CGGCGCAGCCTGACGTTGATCTGTGTAAGAAATGCGGAATGCTCTTCTTCTTCTGAG 766
Db      481 MGNCNWSNNTNCAATTTATYATNTNAAARAYGAGARSNMATHGCMWSNTTYYTCAR 540
OY      767 TTTTGGGGGGGGTGGCCCAAGCAGCCTGCTCTGCGGGGGGAGGAGGAGGAGGAGGAGGAGGAG 826
Db      541 TTTTGGGGGGTGGCCNAAARCCNCCNWSNNTNMSNNGNCGNCCNATGTMNGTNGAR 600
OY      827 CCTGAGAGCAAGTGTGGTGTGAGGAGTGTGGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAG 886
Db      601 CCNGARGATCARGTGTGTCNARTNCTNGNCAATYATVATHGNAATVATGCMWSN 660
OY      887 ATCAAGACAGACAGACCTTCTCCGATTTCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 946
Db      661 ATHAARACGAWSNACNTTYSNCGNAAARMGNWSNAGARSNMATHGCMWSN 720
OY      947 GTCTTTCG 954
Db      721 GTNTTTCG 728

Search completed: June 22, 2003, 04:43:30
Job time : 3606 secs

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Run on: June 22, 2003, 02:42:34 ; Search time 349 Seconds

8885.392 Million cell updates/sec

Title:	US-09-943-851A-41
Perfect score:	1377
Sequence:	1 gactagttctctcttqqatct.....aaaaaaaaaaaaaaaaaaaaaa 1377

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

```
Searched: 2185239 segs, 112599159 residues
Total number of hits satisfying chosen parameters: 4370478
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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
```

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post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries
```

Database : N_Geneseq_101002: *

[illegible]

Pred. NO. Is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1377	100.0	1377	20	AAH87258	cDNA clone encoding
2	1377	100.0	1377	20	AAH800521	Human PRO344 nucle
3	1377	100.0	1377	21	AAAD01242	Human PRO344 prote
4	1377	100.0	1377	21	AAA46907	cDNA encoding nove
5	1377	100.0	1377	21	AAA49560	Human PRO344 cDNA
6	1377	100.0	1377	22	AA521424	Human cDNA sequenc
7	1375.4	99.9	1377	21	AA58626	Human PRO344 prote
8	1322.2	96.0	1347	20	AA24684	Human adipocyte-SF
9	1296.6	94.2	1338	22	AAF44970	Human TANGO 253 CO

10	1295	94.0	1338	22	AAFA4996	Human secreted pro
11	1295	94.0	1338	22	AAFA4999	Human secreted pro
12	1295	94.0	1338	22	AAFA5000	Human secreted pro
13	1295	94.0	1338	22	AAFA5001	Human secreted pro
14	1084.8	78.8	3248	22	AAFL3624	Human secreted pro
15	923.6	67.1	1082	23	AAST6911	Human secreted novel
16	763.6	55.4	764	24	AAAG6288	DNA encoding novel
17	717	52.1	728	22	AAFA4971	cdna sequence #15
18	717	52.1	728	22	AAFA4971	Human TANGO 253 OR
19	715.4	52.0	728	22	AAFA4997	Human secreted pro
20	715.4	52.0	728	22	AAFA4997	Human secreted pro
21	715.4	52.0	728	22	AAFA4995	Human secreted pro
22	692.8	50.3	1263	22	AAFA4972	Human secreted pro
23	691.2	50.2	1263	22	AAFA4972	Human secreted pro
24	691.2	50.2	1263	22	AAFA5006	Murine secreted pr
25	691.2	50.2	1263	22	AAFA5007	Murine secreted pr
26	691.2	50.2	1263	22	AAFA5008	Murine secreted pr
27	606	44.0	1001	21	AAFA5009	Murine secreted pr
28	606	44.0	1001	21	AAZ611745	cdna encoding rat
29	606	44.0	1001	21	AAAC99678	Skin cell cdna, SE
30	606	44.0	1001	24	ABLI34880	Rat cdna isolated
31	606	44.0	1015	21	AAZ61835	cdna encoding rat
32	606	44.0	1015	21	AAAC99568	Skin cell cdna, SE
33	596	44.0	1015	24	ABLI34720	Rat cdna isolated
34	564.2	41.0	729	22	AAH33447	Human colon cancer
35	562.6	40.9	729	22	AAFA4973	Murine TANGO 253 c
36	562.6	40.9	729	22	AAFA5008	Murine secreted pr
37	562.6	40.9	729	22	AAFA5009	Murine secreted pr
38	562.6	40.9	729	22	AAFA5004	Murine secreted pr
39	504	36.6	729	20	AAZ24685	Murine secreted pr
40	257.4	25.2	502	21	AAZ98154	Degenerate DNA enc
41	247.8	18.7	601	22	AAFA4991	Human signal pepti
42	247.8	18.0	536	23	AA576610	Rat TANGO 253 codi
43	149.6	10.9	393	21	AA616131	DNA encoding novel
44	149.6	10.9	393	21	AA616131	cdna encoding rat
45	149.6	10.9	393	24	AAAC99564	Skin cell cdna, SE
					ABLI34716	Rat cdna isolated

ALIGNMENTS

RESULT 1	AXX87258	ID	AXX87258	standard;	CDNA;	1377	BP.
XX							

DT 27-SEP-1999 (first entry)
XX

CCNA clone encoding human PRO344, amplified in tumour cells.

XX cancer; tumour; diagnosis; therapy; human; ss

OS Homo sapiens
YX

Key	Location/Qualifiers
EH	
ET	027 058
CDS	

4411:320
/*tag= a

FT	sig_peptide	227..271
FT		

FT	mat_peptide	z_cag = b
FT	mat_peptide	272...955

ET
VY

PN W09935170-A2

3 XX

FD 15-JUL-1999 .
XX

PF 05-JAN-1999; 99WO-US00106

XX	.	
PB	20-NOV-1999	00:00:00.0000000

05-JAN-1998; 98US-0070440

PR 29-APR-1998; 98US-0083500
PR 29-APR-1998; 98US-0083500

PR	10-JUN-1998:	98US-0088742.
PR	10-NOV-1998:	98US-0107783.
XX	(GETH) GENENTECH INC.	
PA	Botstein D, Goddard A, Gurney AL, Hillan KJ, Lawrence DA;	
XX	Roy MA, Wood WI;	
PI	MP1: 1999-430385/36.	
PI	P-PSDB; AY06481.	
DR	Antibody against proteins expressed in neoplastic cells, useful for	
DR	tumor diagnosis and treatment	
XX	Example 1; Fig 9; 162pp; English.	
XX	This is the nucleotide sequence of cDNA clone DNA0592 (ATCC 209492)	
XX	coding for human PRO344 (UMQ303) (see AY06481). The clone was	
CC	isolated from a foetal kidney library. Amplification of DNA0592	
CC	was observed in primary lung tumours and in primary colon tumours,	
CC	suggesting an association with tumour formation or growth.	
CC	Antagonists (e.g. antibodies) directed against PRO344 may have	
CC	utility in cancer therapy. The invention identifies 14 genes (see	
CC	AY8754-67) that are amplified in the genome of tumour cells. Such	
CC	amplification is expected to be associated with overexpression of	
CC	the gene product and to contribute to tumorigenesis. The encoded	
CC	proteins (see AY064477-90) may be useful targets for the diagnosis	
CC	and/or treatment (including prevention) of certain cancers, and may	
XX	act as predictors of the prognosis of tumour treatment.	
XX	Sequence 1377 BP; 251 A; 422 C; 472 G; 232 T; 0 other;	
SQ		
	Query Match 100.0%; Score 1377; DB 20; Length 1377;	
	Best Local Similarity 100.0%; Pred. No. 1.7e-244;	
	Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
OY	1 GACTAATTCTCTTGAGTCTGGAGAGAGAGAAAGCCGAGCGAGACCGAACCGAGAC	60
DB		
OY	1 GACTAATTCTCTTGAGTCTGGAGAGAGAGAAAGCCGAGCGAGACCGAACCGAGAC	60
DB		
OY	61 TGGGCTGACGCGACGAGGCGAGGCGCCCTTGCCGGGAGAAAGCGCGGGGCTTGAGACACA	120
DB		
OY	61 TGGGCTGACGCGACGAGGCGAGGCGCCCTTGCCGGGAGAAAGCGCGGGGCTTGAGACACA	120
DB		
OY	121 CCAACTGAGAGGCTCGGAGTACCGAGGCCGCCCGAAAGAGGCCATCGGGAGACCGGAGAG	180
DB		
OY	121 CCAACTGAGAGGCTCGGAGTACCGAGGCCGCCCGAAAGAGGCCATCGGGAGACCGGAGAG	180
DB		
OY	181 GGGAGTGGGAGAGGACCCCGGCGTCCGCGGCTCCGAGCGCGGACCATATGAGGCCACTGCT	240
DB		
OY	181 GGGAGTGGGAGAGGACCCCGGCGTCCGCGGCTCCGAGCGCGGACCATATGAGGCCACTGCT	240
DB		
OY	241 GCTCTGTGTGTCCTCGGGGCTTGCGGCGCGGCTCGCCCGCACTGGACACAAAGATCC	300
DB		
OY	241 GCTCTGTGTGTCCTCGGGGCTTGCGGCGCGGCTCGCCCGCACTGGACACAAAGATCC	300
DB		
OY	301 CAGCCTTGCCCGGGGACCCCGCTTCCAGGAGACCGCGGACCATATGAGCCAGAGG	360
DB		
OY	301 CAGCCTTGCCCGGGGACCCCGCTTCCAGGAGACCGCGGACCATATGAGCCAGAGG	360
DB		
OY	361 CTTGCGGGGCGGATGCGCGCGCGCGAGCGGCCCGGAGCGCGGCTTCGGAGAGAA	420
DB		
OY	361 CTTGCGGGGCGGATGCGCGCGCGCGAGCGGCCCGGAGCGCGGCTTCGGAGAGAA	420
DB		
OY	421 AGCGGAGCGCGGAGCGCGGAGTCCCGGAGACTTCGAGGAGAACCCCGGCGCGGAGAGA	480
DB		
OY	421 AGCGGAGCGCGGAGCGCGGAGTCCCGGAGACTTCGAGGAGAACCCCGGCGCGGAGAGA	480
DB		
OY	481 GCGGAGACCGCGGGGCGGAGCGCGGAGTCTCGGAGTCTCGCGAGATCCG	540
DB		
OY	481 GCGGAGACCGCGGGGCGGAGCGCGGAGTCTCGGAGTCTCGCGAGATCCG	540
DB		
OY	541 CTTGAGCGGCAACGCGTCCGAGAGCGCGGCTCGCGCGCTGAGACGACCTTCCCTT	600

[illegible]

PD 10-JUN-1999.
 XX
 PE 01-DEC-1998; 98MO-US25108.
 XX
 PR 25-FEB-1998; 98US-0075945.
 PR 03-DEC-1997; 97US-0067411.
 PR 11-DEC-1997; 97US-0069278.
 PR 11-DEC-1997; 97US-0069334.
 PR 12-DEC-1997; 97US-0069335.
 PR 16-DEC-1997; 97US-0069425.
 PR 16-DEC-1997; 97US-0069696.
 PR 16-DEC-1997; 97US-0069702.
 PR 17-DEC-1997; 97US-0069870.
 PR 17-DEC-1997; 97US-0069873.
 PR 18-DEC-1997; 97US-0068017.
 PR 05-JAN-1998; 98US-0070440.
 PR 09-FEB-1998; 98US-0074086.
 PR 09-FEB-1998; 98US-0074092.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Chen J, Goddard A, Gurney AL, Wood WI;
 PI Yuan J;
 XX WPI: 1999-371118/31.
 DR P-PSDB; AAY17827.
 XX
 PT Nucleic acids encoding PRO secreted and transmembrane proteins
 PS
 XX Claim 2: Fig 20; 123bp; English.
 CC The present invention describes nucleic acids encoding PRO secreted and
 CC transmembrane proteins used therapeutically. The PRO proteins have
 CC cytoskeletal, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy.
 CC Identification of homologues, raising antibodies and design of probes
 CC and primers. They can be used in a range of diseases related to proteins
 CC that they have homology with, e.g. a PRO protein having homology to
 CC complement proteins may be used in inflammatory responses.
 CC
 XX Sequence 1377 BP; 251 A; 422 C; 472 G; 232 T; 0 other;
 SO

Query Match 100.0%; Score 1377; DB 20; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 1.7e-244;
 Matches 1377; Conservat 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTAGTCTCTGAGTGTGGAGGAGGAACCGGAGCGGAGGAGCGAACCAGAC 60
 DB 1 GACTAGTCTCTGAGTGTGGAGGAGGAACCGGAGCGGAGGAGCGAACCAGAC 60
 QY 61 TGGGTTGACGGCAGGGGCGGCGCTGCGGAGGAGAAAGCGGCGGCTGGAGCACA 120
 DB 61 TGGGTTGACGGCAGGGGCGGCGCTGCGGAGGAGAAAGCGGCGGCTGGAGCACA 120
 QY 121 CCMAAGTGGAGGGTCCCGAGTACGAGACCGCCGGAAGAGAGCCATGGGGAGCGGAGG 180
 DB 121 CCMAAGTGGAGGGTCCCGAGTACGAGACCGCCGGAAGAGAGCCATGGGGAGCGGAGG 180
 QY 181 GGGAGTGCAGAGAGACCCCGGCGTCCGGGCTCCGGTCCAGAGCGTATGAGAGCCACTCT 240
 DB 181 GGGAGTGCAGAGAGACCCCGGCGTCCGGGCTCCGGTCCAGAGCGTATGAGAGCCACTCT 240
 QY 241 GGTCTGCTGCTCTGCGGCTGGGCGGCGGCTGGGCGGCGGCGGCGGCGGCGGCGGCGG 300
 DB 241 GGTCTGCTGCTCTGCGGCTGGGCGGCGGCGGCTGGGCGGCGGCGGCGGCGGCGGCGG 300
 QY 301 CAGCCTTGCCGGGAGACCCCGGCGTCCAGAGAGAGCGGCGGCGGCGGCGGCGGCGGCGG 360
 DB 301 CAGCCTTGCCGGGAGACCCCGGCGTCCAGAGAGAGCGGCGGCGGCGGCGGCGGCGGCGG 360
 QY 361 CTTGCGGGGCGGCGGAGTGGCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAG 420
 DB 361 CTTGCGGGGCGGCGGAGTGGCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAG 420

DB 361 CTTGCGGGGCGGCGGAGTGGCGGAGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAG 420
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 DB 421 AGGAGAGGCGGAGAGCGGAGTGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGAG 480
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 DB 481 GGGGAGAGCGGCGGAGAGCGGAGTGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGAG 540
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 DB 601 CGAGCGGCGGAGAGCGGAGTGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGAG 660
 QY 661 CCAGTGTCTGCGGAGTGGCGGAGTGGCGGAGCGGCGGCGGCGGCGGCGGCGGAG 720
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 QY 841 GTGGGTGAGTGGGTGTGGGTGACTACATGATGATGATGATGATGATGATGATGATGAT 900
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 DB 901 CACCTTCGCCGATTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
 QY 961 CCACATGCAAGTGAAGTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
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 QY 1081 GCACTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
 DB 1081 GCACTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
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 DB 1141 GCAGCATGGGCGAGTGGCTGATTTTCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
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 DB 1201 GTTGAAGTCCCGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260
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 QY 1321 GATCATCTCAATAACCTTAAGAACCTCATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1377
 DB 1321 GATCATCTCAATAACCTTAAGAACCTCATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1377
 QY 1377 GATCATCTCAATAACCTTAAGAACCTCATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1377
 DB 1377 GATCATCTCAATAACCTTAAGAACCTCATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 3
 AAD01241
 ID AAD01241 standard; cDNA; 1377 BP.
 XX
 AC AAD01241;
 XX

08-NOV-2000 (first entry)

Human PRO344 protein encoding cDNA clone, DNA40592-1242.
PRO344: DNA40592-1242; human; ATCC No: 209492; antiproliferative;
neoplastic cell growth inhibitor; cytosolic; treatment; cancer; tumour;
breast; prostate; colon; lung; renal; ovarian; central nervous system;
CNS; leukemia; melanoma; Expressed Sequence Tag; EST; secreted protein;
extracellular domain; ECD; ss.

Homo sapiens.

Location/Qualifiers
227..958

Key

CDS

sig_peptide
227..271
/note- "Human PRO344 protein"
/product- "Derived from clone DNA40592-1242"

mat_peptide
272..955
/tag- b
/product- "Mature human PRO344 protein"

NO200032778-A2.

08-JUN-2000.

30-NOV-1999; 99MO-US28409.

01-DEC-1998; 98MO-US25108.

16-DEC-1998; 98US-0112850.

22-DEC-1998; 98US-0113296.

20-JUL-1999; 99US-0144758.

26-JUL-1999; 99US-0145698.

(GETH) GENENTECH INC.

Chen J, Goddard A, Gurney AL, Hillan K, Napier M, Wood WI.

WPI: 2000-412325/35.

P-PSDB: AAT71468.

New composition useful for inhibiting neoplastic cell growth and for treating cancers, comprises PRO655, PRO344 or PRO364 polypeptide or their antagonists -

Claim 20: Fig 5: 108pp: English.

The present sequence is the cDNA clone, designated as DNA40592-1242, encoding the human PRO344 polypeptide. It is isolated from human foetal lung tissue cDNA library. Identified using probes based on a consensus sequence DNA43398, derived from secreted protein extracellular domain (ECD). Expressed Sequence Tag (EST). This clone is assigned ATCC deposit No: 209492. PRO344 functions as a neoplastic cell growth inhibitor and is used for treating tumours, using an effective amount of PRO655, PRO364 and PRO344. This composition is especially useful for treatment of human cancers such as breast, prostate, colon, lung, renal, ovarian and CNS, leukemia and melanoma.

Sequence 1377 BP; 251 A; 422 C; 472 G; 232 T; 0 other;

Query Match 100.0%; Score 1377; DB 21; Length 1377;
Best Local Similarity 100.0%; Pred. No. 1.7e-244;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACTAGTCTGCTGGAGCTGGAGAGAGAAAGCGAGCCCGGACGAGGAGCAACAGAGAC 60
1 GACTAGTCTGCTGGAGCTGGAGAGAGAAAGCGAGCCCGGACGAGGAGCAACAGAGAC 60
61 TGGGGTGCAGGAGGAGCGGCGCTGGCGGGGAGAGAGCGGGGGCTGGAGACCA 120
61 TGGGGTGCAGGAGGAGCGGCGCTGGCGGGGAGAGAGCGGGGGCTGGAGACCA 120
61 TGGGGTGCAGGAGGAGCGGCGCTGGCGGGGAGAGAGCGGGGGCTGGAGACCA 120

121 CCACTGAGAGGCTCCGAGTAGCAGAGCGCCCGCAAGAGGCCATCGGAGAGCCGGAGG 180
121 CCACTGAGAGGCTCCGAGTAGCAGAGCGCCCGCAAGAGGCCATCGGAGAGCCGGAGG 180
181 GGGAGTGGAG 240
181 GGGAGTGGAG 240
241 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
241 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 300
301 CAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
301 CAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
361 CTTGCGGGGGCGGAGTGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
361 CTTGCGGGGGCGGAGTGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
421 AGGCGAG 480
421 AGGCGAG 480
481 GGGGAG 540
481 GGGGAG 540
541 CTTGACAG 600
541 CTTGACAG 600
601 CTTGACAG 660
601 CTTGACAG 660
661 CAGAGTGGCTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
661 CAGAGTGGCTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
721 GTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
721 GTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
781 GCGCAAG 840
781 GCGCAAG 840
841 GTGGGTGAGAGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 900
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901 CACCTTCTCGGAGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
901 CACCTTCTCGGAGTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 960
961 CCACTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1020
961 CCACTGCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1020
1021 GGTGATGAG 1080
1021 GGTGATGAG 1080
1081 GCACTCTCCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
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1141 GAGAGATGAG 1200
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1201 GTGTAAGTCCCGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1260

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Db      1201 GTGTAAGTCCCCAGTGTCTGTGTCAGAGACCCAGCGTGGGGTCTCTCTGCGC 1260
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Db      1261 CTTCTGTTCTGTGATCTCCACCCCTCTGCTCTGCGGCGGCGCTTTCTCAGA 1320
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ID      AAA46907 standard; cDNA; 1377 BP.
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AC      AAA46907;
XX
DT      03-OCT-2000 (first entry)
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DE      cDNA encoding novel polypeptide PRO344.
XX
KW      PRO201; PRO327; PRO1265; PRO344; PRO347; PRO357;
KW      PRO715; PRO1017; PRO1112; PRO509; PRO853; PRO882; tumour cell;
KW      tumorigenesis; cancer; neoplastic cell growth; cell proliferation; ss.
XX
OS      Homo sapiens.
XX
FH      Key      Location/Qualifiers
FT      CDS      227..958
FT      /*tag= a
XX
XX      WO200037640-A2.
XX
PD      29-JUN-2000.
XX
PF      16-DEC-1999; 99MO-US10095.
XX
PR      22-DEC-1998; 98US-0113296.
PR      08-MAR-1999; 99MO-US05028.
PR      02-JUN-1999; 99MO-US12252.
PR      01-SEP-1999; 99MO-US20111.
PR      15-SEP-1999; 99MO-US21090.
PR      30-NOV-1999; 99MO-US28313.
PR      30-NOV-1999; 99MO-US28409.
PR      01-DEC-1999; 99MO-US28301.
PR      02-DEC-1999; 99MO-US28565.
XX
PA      (GETH ) GENENTECH INC.
XX
PI      Botstein D, Goddard A, Gurney AL, Hillan K, Lawrence DA, Roy MA,
PI      Wood WI;
XX
DR      MPI; 2000-452188/39.
XX
XX      P-PSDB; AAY93688.
XX
PT      New anti-polypeptide antibody useful in the treatment and diagnosis of
PT      neoplastic cell growth and proliferation -
XX
PS      Claim 50; Fig 9; 220pp; English.
XX
XX      The present sequence encodes a novel human polypeptide. The
XX      specification describes novel polypeptides designated PRO201, PRO292,
XX      PRO327, PRO1265, PRO344, PRO347, PRO357, PRO715, PRO1017,
XX      PRO1112, PRO509, PRO853, and PRO882. These genes are amplified in
XX      the genome of tumour cells. The polypeptides are believed to contribute
XX      to tumorigenesis. The polypeptides are useful target for the
XX      identification of certain cancers, and may act as predictors of the
XX      prognosis of tumour treatment. Antibodies against these polypeptides
XX      are useful in the treatment and diagnosis of neoplastic cell growth
XX      and proliferation in mammals.
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SQ      Sequence 1377 BP; 251 A; 422 C; 472 G; 232 T; 0 other:

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Query Match      100.0%; Score 1377; DB 21; Length 1377;
Best Local Similarity 100.0%; Pred. No. 1,7e-244;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY      61 TGGGGTGACGGGAGGCGAGGCGCGCTGCGGGGAGAAAGCGGGGCTGTGAGACCA 120
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OY      121 CCAACTGAGAGGCTCCGAGTAGAGAGAGCGCCGGAAGAGAGCCATGTGGGAGAGCGGAGG 180
Db      121 CCAACTGAGAGGCTCCGAGTAGAGAGAGCGCCGGAAGAGAGCCATGTGGGAGAGCGGAGG 180
OY      181 GGGAGTGCAGAGAGACCCCGGCGTCCGGCTCCGGTCCAGCGGTATGAGGCACTCCT 240
Db      181 GGGAGTGCAGAGAGACCCCGGCGTCCGGCTCCGGTCCAGCGGTATGAGGCACTCCT 240
OY      241 CGTCCGTGCTGCTGTGGGCGCTGCGGCGCGCTGCGGCGCGCTGCGGCGCGCTGCGGCGCG 300
Db      241 CGTCCGTGCTGCTGTGGGCGCTGCGGCGCGCTGCGGCGCGCTGCGGCGCGCTGCGGCGCG 300
OY      301 CAGCCTCTGCGCGGGGCAACCCCGCTTCCAGGCAACCGCGGCGCAATGGCAGCGAGG 360
Db      301 CAGCCTCTGCGCGGGGCAACCCCGCTTCCAGGCAACCGCGGCGCAATGGCAGCGAGG 360
OY      361 CTTGCGGGGCGCGGATGCGCGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGAGAA 420
Db      361 CTTGCGGGGCGCGGATGCGCGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGAGAA 420
OY      421 AGCGGAGGCGGAGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGAG 480
Db      421 AGCGGAGGCGGAGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGCGCGGAGAG 480
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Db      481 GCGGAGAGCGCGGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 540
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Db      541 CTTAGCGCGCAAGCGCTGCGAGAGCGCGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 600
OY      601 CGACCGCGTGTGTGAAAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
Db      601 CGACCGCGTGTGTGAAAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 660
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OY      721 GTTGATCTGTGTAAGATGCGGAATCGCATTCGCTCTTCTTCTGAGTTTTCGGGGGTG 780
Db      721 GTTGATCTGTGTAAGATGCGGAATCGCATTCGCTCTTCTTCTGAGTTTTCGGGGGTG 780
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Db      781 GCCCAAGCGCAAGCTGCGTCTGCGGGGGGCGCATGCTGAGGAGGAGGAGGAGGAGGAGG 840
OY      841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
Db      841 GTGGGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
OY      901 CACCTTTCGCGGATTTCTGTGCTACTCCGACTGCGAGCTGCCAGCTCCCAAGTCTTCTT 960
Db      901 CACCTTTCGCGGATTTCTGTGCTACTCCGACTGCGAGCTGCCAGCTCCCAAGTCTTCTT 960
OY      961 CCACTGCGAAGAGAGTCTGCTCTCTACTCTAGAGAGAGGAGGAGGAGGAGGAGGAGGAGG 1020
Db      961 CCACTGCGAAGAGAGTCTGCTCTCTACTCTAGAGAGAGGAGGAGGAGGAGGAGGAGGAGG 1020

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D	b	301	CAGCCTCTGCCCCGGGGACACCCCGGCGCTTCAGAGCAAGCCCGGGCACCATGGCAGCCAGG	360
O	y	361	CTTGGCCGGGCGCCGATGGCCCGCGACGGCCCGGACGGCGCCCGGGGGCTCCGGGAGAGA	420
D	b	361	CTTGGCCGGGCGCCGATGGCCCGCGACGGCCCGGACGGCGCCCGGGGGCTCCGGGAGAGA	420
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D	b	421	AGCGAGGGCGGGAGAGCGCGGACTGCGGGGACCTCCAGAGGGACCCCGGGCCCGAGAGA	480
O	y	481	GGCGGAGACCCCGGGGGCCCAACCGGGCGTGGCGGGAGTGCTGGTGGCTCCCGCATCCGC	540
D	b	481	GGCGGAGACCCCGGGGGCCCAACCGGGCGTGGCGGGAGTGCTGGTGGCTCCCGCATCCGC	540
O	y	541	CTTAGAGGCCAAGGGGCTCCAGAGCGCGGCTCCCGCGTGTGAGAGCACTTTGCTCTT	600
D	b	541	CTTAGAGGCCAAGGGGCTCCAGAGCGCGGCTCCCGCGTGTGAGAGCACTTTGCTCTT	600
O	y	601	CGAGCCGCGTCTGGTGAACAGCAGGAGACATTACAGAGCGCGGTACACGGCAAGTTACCTG	660
D	b	601	CGAGCCGCGTCTGGTGAACAGCAGGAGACATTACAGAGCGCGGTACACGGCAAGTTACCTG	660
O	y	661	CGAGGCGCCGGGGCTACTACTTGGCGGTCCATGCCACCGCTACCGCGGCAGCCTGCA	720
D	b	661	CGAGGCGCCGGGGCTACTACTTGGCGGTCCATGCCACCGCTACCGCGGCAGCCTGCA	720
O	y	721	GTTTGTATCTGTGAAGATGGGGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGGTG	780
D	b	721	GTTTGTATCTGTGAAGATGGGGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGGTG	780
O	y	781	GGCCAAAGCCAGCTCGCTCTCGGGGGGGCCATGGTGAAGCTGGAAGCTGAGGACCAAGT	840
D	b	781	GGCCAAAGCCAGCTCGCTCTCGGGGGGGCCATGGTGAAGCTGGAAGCTGAGGACCAAGT	840
O	y	841	GTGGGTGCAGGTGGGTGGGGGAGCTACATTGGCATCTATTGCCAGTCACAAGACAGCA	900
D	b	841	GTGGGTGCAGGTGGGTGGGGGAGCTACATTGGCATCTATTGCCAGTCACAAGACAGCA	900
O	y	901	CACCTTCTCCGGATTTCTGTGTACTCCGATGGCAGCAGCCTCCCGAGTCTTCTTAAAGT	960
D	b	901	CACCTTCTCCGGATTTCTGTGTACTCCGATGGCAGCAGCCTCCCGAGTCTTCTTAAAGT	960
O	y	961	CCCACTGCAAGTAGCTCATGCTCTCATCTTGAAGAAGAGGGTGTAGAGCTGACAACA	1020
D	b	961	CCCACTGCAAGTAGCTCATGCTCTCATCTTGAAGAAGAGGGTGTAGAGCTGACAACA	1020
O	y	1021	GGTCATCCAGAGAGGCTGGGCCCTCGGATATTGGGAATGATACGAGAGGTGGGTAGA	1080
D	b	1021	GGTCATCCAGAGAGGCTGGGCCCTCGGATATTGGGAATGATACGAGAGGTGGGTAGA	1080
O	y	1081	GCACCTCCCGCTGCTGCTGTGGCAAGCATGGGAGACAGTGGCTGTCTCGCATCAGTCTG	1140
D	b	1081	GCACCTCCCGCTGCTGCTGTGGCAAGCATGGGAGACAGTGGCTGTCTCGCATCAGTCTG	1140
O	y	1141	GCAGCATGGGGGAGTGGCTGGATTTCTGGCCAAAGACACAGAGATGTGCTGTGCGCAA	1200
D	b	1141	GCAGCATGGGGGAGTGGCTGGATTTCTGGCCAAAGACACAGAGATGTGCTGTGCGCAA	1200
O	y	1201	GTTGTAAGTCCCCAGTTGCTCTGTGTGCAGAGACCCACGCTGGGGTGGCTCTTCTCGTGC	1260
D	b	1201	GTTGTAAGTCCCCAGTTGCTCTGTGTGCAGAGACCCACGCTGGGGTGGCTCTTCTCGTGC	1260
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D	b	1261	CTGTGCTTCTGTGATCTCTCCACACCCCTCTGTCTCTGGGCGCGGCGCTTTCTCAGA	1320
O	y	1321	GATCACTCAATTAACCTTAAGAACCTCATTAACCAAAAAAAAAAAAAAAAAAAAAA 1377	

DB	1321	GATCAGCTCAATTAACCTTAGACACCTCATATAAAAA	1377
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ID	ACCS8626	standard; cDNA; 1377 BP.	
XX			
AC	ACCS8626;		
XX			
DT	29-JAN-2001	(first entry)	
XX			
DE	Human PRO344	protein UNQ03 encoding cDNA SEQ ID NO:240.	
XX			
KW	Human;	immune related disease; diagnosis; antiinflammatory; cardiant;	
KW	dermatological; antirheumatic; antrheumatic; immunosuppressive;		
KW	hemostatic; antithyroid; antidiabetic; nootropic; neuroprotective;		
KW	antiallergic; hepatologic; virocidic; antipsoriatic; antiallergic;		
KW	osteoarthritis; systemic lupus erythematosus; rheumatoid arthritis;		
KW	idiopathic inflammatory myopathy; Sjogren's syndrome; sarcoidosis;		
KW	systemic vasculitis; autoimmune hemolytic anaemia; diabetes mellitus;		
KW	autoimmune thrombocytopenia; immune-mediated renal disease;		
KW	develonating disease; hepatobiliary disease; Whipple's disease;		
KW	inflammatory bowel disease; gluten-sensitive enteropathy;		
KW	autoimmune disease; immune-mediated skin disease; allergic disease;		
KW	immunological disease; transplantation associated disease;		
KW	graft rejection; graft-versus-host-disease; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	MO200053758-A2.		
XX			
PD	14-SEP-2000.		
XX			
PF	02-MAR-2000; 2000MO-US05841.		
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PR	08-MAR-1999;	99MO-US05028.	
PR	10-MAR-1999;	99US-0123618.	
PR	12-MAR-1999;	99US-0123957.	
PR	23-MAR-1999;	99US-0125775.	
PR	12-APR-1999;	99US-0128849.	
PR	20-APR-1999;	99MO-US08615.	
PR	28-APR-1999;	99US-0131445.	
PR	04-MAY-1999;	99US-0132371.	
PR	14-MAY-1999;	99US-0134287.	
PR	02-JUN-1999;	99MO-US12252.	
PR	23-JUN-1999;	99US-0141037.	
PR	26-JUL-1999;	99US-0144758.	
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PR	15-SEP-1999;	99MO-US21090.	
PR	05-OCT-1999;	99MO-US21547.	
PR	29-OCT-1999;	99MO-US23089.	
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PR	16-DEC-1999;	99MO-US28565.	
PR	20-DEC-1999;	99MO-US30095.	
PR	30-DEC-1999;	99MO-US31274.	
PR	05-JAN-2000;	2000MO-US00219.	
PR	06-JAN-2000;	2000MO-US00277.	
PR	11-FEB-2000;	2000MO-US00376.	
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XX
XX
AC   AAAF45000;
XX
XX
DT   28-MAR-2001 (first entry)
XX
XX
DE   Human secreted protein related coding sequence SEQ ID NO: 107.
KW   Human; mouse; secreted protein; TANGO253; TANGO 257; TANGO 281;

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OS	Homo sapiens.	.
XX		
WN	W0200073808-A1.	

524 AACCCAGGTCCTGGGGTCTACTCTGCGCGTCATGCCACCGTCTACCGGGCCA 713

WO200238602-A2.

AA
PN
WO200238602-A2.

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 03:22:25 ; Search time 1901 Seconds
(without alignments)
11731.292 Million cell updates/sec

Title: US-09-943-851A-41
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Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	750.6	54.5	1154	13	BMS47549
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6	672.2	48.8	724	13	B1771879

7	660.4	48.7	1045	14	BM920874
8	641.8	46.6	792	13	B1770921
9	631.1	45.8	887	13	B1490062
10	623.1	44.1	1623	14	BM926477
11	607.2	44.1	630	12	BM926609
12	596.4	43.3	596	14	BM935877
13	586.4	42.6	596	13	BM944255
14	583.2	42.4	941	13	B1821899
15	578.2	42.0	578	14	BM935877
16	577.2	41.9	879	13	B1820945
17	572.4	41.6	574	14	BM920945
18	554	40.2	870	9	AF451167
19	551.4	40.0	553	12	BF882978
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22	517	37.5	517	14	BM966954
23	507.8	36.9	574	10	AM150070
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38	409.8	29.8	413	9	AF1083823
39	408.4	29.7	410	14	BM707291
40	405.4	29.4	408	9	AF1085548
41	402.4	29.2	405	9	AF1083824
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ALIGNMENTS

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ACCESSION B1763193
VERSION B1763193
KEYWORDS B1763193.1 GI:15754771
SOURCE EST.
ORGANISM human.
Tissue sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 869)
AUTHORS NIH-MGC http://mgi.ncl.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@ncl.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLNL1475 row: 1 column: 07
High quality sequence stop: 777.
Location/Qualifiers
L. 869

FEATURES
source


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http://image.llnl.gov
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/note="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
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female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH MGC Library."
197 a 339 c 356 g 198 t 3 others
BASE COUNT
ORIGIN

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DEFINITION	60319883721 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5276184 5'
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VERSION	B1458455
KEYWORDS	B1458455.1 GI:15291111
SOURCE	EST.
ORGANISM	human. Homo sapiens

REFERENCE
1 (bases 1 to 846)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

*Source Procurement: Miklos Palkovits, M.D., Ph.D.
 CDNA Library Preparation: Michael J. Brownstein (NIGRI), Shirok
 Toshiyuki and Piero Carninci (RIKEN)
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
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 High quality sequence stop: 815.
 Location/Qualifiers
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FEATURES
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/lab_host="DH10B"
/note="Organ: brain; Vector: pBluescript (modified
pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (glucosae
); Oligo-dT primed using primer 5'-TTTTTTTTTTTTTTTTVN-3',
size-selected for average insert size 2.3 kb and
normalized to R07 5. This is a primary library enriched
for full-length clones and constructed using the
Cap-trapper method (Carroll, in preparation). Library
constructed by M. Brownstein (NIMH/NIDDK, National
Institutes of Health). Note: this is a NH_MGC Library."
129 a 271 c 330 g 115 t 1 others

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Query Match	53.0%	Score 730.2	DB 13	Length 846
Best Local Similarity	96.1%	Pred. No. 1.1e-90		
Matches 803	Conservative 0	Mismatches 24	Indels 9	Gaps 5
7	TTCTCTTGAGTCTGTGGAGAGCAAAACGCGACCGGAGGAGCGCAACACAGACTGGGGT			66
1				
19	TTCTCTTGAGTCTGTGGAGAGCAAAACGCGACCGGAGGAGCGCAACACAGACTGGGGT			78
67	GACGCGAGGGGCGAGGGGGCCCTGTGCCGGGAGAACGGCGGGGCTGTGAGCACACCAACT			126
79	GACGCGAGGGGCGAGGGGGCCCTGTGCCGGGAGAACGGCGGGGCTGTGAGCACACCAACT			138
127	CGAGGCTCCGAGTAGCGCAGGCCCCCGCAAGAGAGCCATCTGGGGAGACCGCGGAGGGGGACT			186

D	b	139	GGAGGGTCCGAGTACCGAGCCGCCCGAAGAGGCGCATTCGGGACGCGGGAGGGGAGCT	196
Q	y	187	GCAGAGAGAACCCCGGGGCTCCGGGGCTCCGGTCCGACCGCTATGAGGCCACTCTCTCTCT	246
D	b	199	GCAGAGAGAACCCCGGGGCTCCGGGGCTCCGGTCCGAGCCGCTATGAGGCCACTCTCTCTCT	256
Q	y	247	GCCTCTCTGGGCTCTGCGGGCGGCTCGGCCCCACATGAGACAAACAAGATCCCACTCT	306
D	b	259	GGCTCTCTGGGCTCTGCGGGCGGCTCGGCCCCACATGAGACAAACAAGATCCCACTCT	318
Q	y	307	CTTCCCGGGGAGACCCCGGGCTCTCCAGGGACCGCGGGCCACATGAGCCAGCGGCTTCC	366
D	b	319	CTTCCCGGGGAGACCCCGGGCTCTCCAGGGACCGCGGGCCACATGAGCCAGCGGCTTCC	378
Q	y	367	GGGCGCGCATGAGCCCGGACAGCGCGCGGACGCGCGCGCGGGCTCTCCGAGAGAAAGCGA	426
D	b	379	GGGCGCGCATGAGCCCGGACAGCGCGCGGACGCGCGCGCGGGCTCTCCGAGAGAAAGCGA	438
Q	y	427	GGGCGGGAGAGCGGGGACTGCGGGGACCTCGAGGGGACCCCGGGCGGGAGAGAGCGGG	486
D	b	439	GGGCGGGAGAGCGGGGACTGCGGGGACCTCGAGGGGACCCCGGGCGGGAGAGAGCGGG	498
Q	y	487	ACCGCGGGGGCGCACCGGGCTGCCCGGGGAGTGTCTCGGTCTCCGAGATCCGCTTCA	546
D	b	499	ACCGCGGGGGCGCA-CGGGCTGCGGGGGAGTGTCTCGGTCTCCGAGATCCGCTTCA	557
Q	y	547	CGCCAAAGCGTCCGAGAGACCGGGGCGCTCCGGCGGCTCGAGGCAACCCCTTCCGACCG	606
D	b	558	CGCCAAAGCGTCCGAGAGACCGGGGCGCTCCGGCGGCTCTGAGGCAACCCCTTCCGACCG	617
Q	y	607	CGTCTGTGACACGACGAGGACATTGACAGCGCGGTACCGGCAAGTTCACT- GCGAGG	665
D	b	618	CGTCTGTGACACGAGGAGGACATTGACAGCGCGGTACCGGCAAGTTCACTGCGGCAAG	677
Q	y	666	TGCGTGGGGTCTACTACTTGGCGGTCCATCCACCGGTACACGGGGCAGCTGCGAGTTTG	725
D	b	678	TGCGTGGGGTCTACTACTTGGCGGTCCATCCACCGGTACACGGGGCAG- CTGCAATTGG	736
Q	y	726	ATCGGTGAAGAANTGCGGATTCATTGCTCTTTCCTCAGATTTCGGGGGGTGGCCCA	785
D	b	737	ATCGGTGAAGAANTG- GAATTCATTGCTCTTTCCTCAGATTTCGGGGGGTGGC- -	792
Q	y	786	AGCCAGCCTCGTCTCGGGGGGGCCATGTAGAGCTGAGCTGAGGACCAAGT	841
D	b	793	-CAGCGAAGCTCTCTCGGGGGGGGATTTTGAAGCTGAGGACCTTGAAGACCAAGT	846

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RESULT 5
BI490880/c
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

      801 bp      mRNA      linear      EST 28-AUG-2001
BI490880
603031867r1 NIH_MGC_115 Homo sapiens cDNA clone IMAGE:5172880 3',
mRNA sequence.
BI490880
BI490880.1 GI:15330108
EST.
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 801)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov

```

Plate: LLAM11430 row: f column: 17
High quality sequence start: 8
High quality sequence stop: 738.

BASE COUNT	180 a	251 c	237 g	133 t
ORIGIN				

Query Match	51.8%	Score 712.6;	DB 13;	Length 801;
Best Local Similarity	98.28;	Pred. No. 2.7e-88;		
Matches 773; Conservative	0;	Mismatches 9.	Indels 5.	...

Db	127	ACTGTCCTGTCTGGCAAGTGAAGTCCCGCAGTTGCTCTGTGATGCACGAGGCCACGGTG	68
Oy	1243	GGTGCTCTCTTCCTGAGTCTGCTCTGCTTCCTGATCATCTCCACGCCCTCCGTCCTGGG	1302
Db	67	GGTGCTCTCTTCCTGAGTCTGCTCTGCTTCCTGATCATCTAACCCTCTCTGCTCTGGG	8
Oy	1303	GCCGAGCC 1309	
Db	7	GGGGGCC 1	
RESULT 6			
BI771879			
LOCUS			
DEFINITION	BI771879	724 bp mRNA	EST 25-SEP-2001
ACCESSION	60305528OF1	NIH_MGC_122 Homo sapiens CDNA clone IMAGE:5204971	5'
VERSION	BI771879	mRNA sequence.	
KEYWORDS	BI771879.1	GI:15763457	EST.
SOURCE	human.		
ORGANISM	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.		
AUTHORS	NIH-MGC	http://mgs.ncl.nih.gov/	

FEATURES
SOURCE

found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Plate: LLAMI1513 row: 0 column: 20

High quality sequence step: 672.

Query Match	Best Local Similarity	Score	DB 14	Length	1045
Matches 733	Conservative	0	Mismatches 31	Indels 4	Gaps 4
BASE COUNT	176 a	343 c	341 g	183 t	2 others
ORIGIN					
Query Match	48.7%	Score 671	DB 14	Length 1045	
Best Local Similarity	95.4%	Pred. No. 1.1e-82			
Matches 733	Conservative	0	Mismatches 31	Indels 4	Gaps 4
171	GCCGGGAGGGGGGAGCTAGCGAGAGACCCGGGGTCCGGGCTCCCGCTGCGACAGCGTATGA	230			
111	111 111				
37	GCCGGGTCCACACACTGCGAGAGACCCGGGGTCCCGGCTCCCGCTGCGACAGCGTATGA	96			
231	GCGCACTCTCTGCTCTGCTGCTCTGAGGCTGCGGGCGGGCTGCGGCCACATGACGACA	290			
97	GCGCACTCTCTGCTCTGCTGCTCTGAGGCTGCGGGCGGGCTGCGGCCACATGACGACA	156			
291	ACAAGATCCCGACGCTCTGCGGGGCGACCCGGGCTTCCAGAGCAGCGCGGCGACCATG	350			
157	ACAAGATCCCGACGCTCTGCGGGGCGACCCGGGCTTCCAGAGCAGCGCGGCGACCATG	216			
351	GCAGCCAGGGCTTGGCCGGCCCGAGTGGCCCGAGAGCGCGGAGCGCGCGCGGGGGCTC	410			
217	GCAGCCAGGGCTTGGCCGGCCCGAGTGGCCCGAGAGCGCGGAGCGCGCGCGGGGGCTC	276			
411	CGGAGAGAGAAAGGCGAGGGCGGGAGCGCGGACCTCGCGGACCTCGAGAGGGAGCCCGCGG	470			
277	CGGAGATTAAGGCGAGGGCGGGAGCGCGGACCTCGCGGACCTCGAGAGGGAGCCCGCGG	336			
471	CGCGAGAGAGGCGGAGCCCGCGGGGCCACCGGGGCTTCCGGGGAGTGGTCCGTGCTC	530			
337	CGCGAGAGAGGCGGAGCCCGCGGGGCCACCGGGGCTTCCGGGGAGTGGTCCGTGCTC	396			
531	CGCGATCCGCTTACAGCCCGCAAGCGCTCCGAGACCGGGGTCCCGCGCTTCCGAGCGAC	590			
397	CGCGATCCGCTTACAGCCCGCAAGCGCTCCGAGACCGGGGTCCCGCGCTTCCGAGCGAC	456			
591	CGTGGCCCTTGCAGCGGCTGCTGTGTGAAGAGAGGAGCAATTGAGAGCGCGCTACCGGCA	650			
457	CGTGGCCCTTGCAGCGGCTGCTGTGTGAAGAGAGGAGCAATTGAGAGCGCGCTACCGGCA	516			
651	AGTTTACCTGCGACAGTCCCTGGGGTCTACTACTTCCGCGTCAATGCGACCGTCTACCGGG	710			
517	AGTTTACCTGCGACAGTCCCTGGGGTCTACTACTTCCGCGTCAATGCGACCGTCTACCGGG	576			
711	CCAGCCTGCAATTTGATCTGCTGAAGAAATGGCAATTCATTTGCTCTTCTTCCAGTTT	770			
577	CCAGCCTGCAATTTGATCTGCTGAAGAAATGGCAATTCATTTGCTCTTCTTCCAGTTT	636			
771	TCGGGGGGTGGCCCAAGCCCTGCTCTCGGGGGGGGCCAATGAGAGCGTGGAGCGTG	830			
637	TCGGGGGGTGGCCCAAGCCCTGCTCTCGGGGGGGGCCAATGAGAGCGTGGAGCGTG	696			
831	AGGACCAAGTGGGGGCGAGGTC-GGTGGGGTGACTTACA-TTGGCAATCTATGCCA-GCA	887			
697	ATGACCAAGTGGGGGCGAGGTC-GGTGGGGTGACTTACA-TTGGCAATCTATGCCA-TTCA	756			
888	TCAGAGACAGACAGACCTTCT-CCGATTTTCTGGTACTCGGATGG	934			
757	TCAGAGACAGACAGACCTTCTCCCGGATTTCTGGTGAACCTCGGACTGG	804			

mRNA sequence.
 accession BI770921
 version BI770921.1 GI:15762499
 keywords EST.
 source human.
 organism Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NIH-MGC http://mgi.ncl.nih.gov/
 NIH (bases 1 to 792)
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-remail.nih.gov
 Tissue Procurement: Life Technologies, Inc.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: L14M1524 row: 1 column: 10
 High quality sequence stop: 782.
 Location/Qualifiers
 1..792
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:529065"
 /clone_lib="NIH_MGC_122"
 /lab_host="DH10B"
 /note="Organ: pooled lung and spleen; Vector: pCMV-Sport6;
 Site_1: NotI; Site_2: EcoRV (destroyed); RNA source:
 anonymous pool of 24 week female lung, 16 week female
 spleen, and 20-22 week male spleens. Library is oligo-dT
 primed and directionally cloned (EcoRV site is destroyed
 upon cloning). Average insert size 1.4 kb, insert size
 range 1-3 kb. Library is normalized and enriched for
 full-length clones and was constructed by C. Gruber
 (Invitrogen). Research Genetics tracking code 026. Note:
 this is a NIH-MGC Library."

BASE COUNT 142 a 232 c 237 g 180 t 1 others
 ORIGIN

Query Match 48.0%; Score 660.4; DB 13; Length 792;
 Best Local Similarity 96.9%; Pred. No. 3.5e-81;
 Matches 758; Conservative 0; Mismatches 16; Indels 8; Gaps 8;

QY 562 GAGCGGAGCGCCGCGCTGACGACCGCTTGGCTTGCACCGCGTGTGTAACGA 621
 DB 1 GAGCGGAGCGCTCCCGCGCTGACGACCGCTTGGCTTGCACCGCGTGTGTAACGA 60
 QY 622 GCAGGACATTAAGAGCGCGTACCGGCAAGTTCACCTGCCAGTGGCGGTCTACTA 681
 DB 61 GCAGGACATTAAGAGCGCGTACCGGCAAGTTCACCTGCCAGTGGCGGTCTACTA 120
 QY 682 CTTCCGCGTCCATGCGACCGTGTACCGGGCAGCGCTGCAAGTTGATGCTGGAAGATGG 741
 DB 121 CTTCCGCGTCCATGCGACCGTGTACCGGGCAGCGCTGCAAGTTGATGCTGGAAGATGG 180
 QY 742 CGAATCATTCCTCTTCTTCATGTTTGGGGGGGGGCGCAAGCAGCGCTGCTCTC 801
 DB 181 CGAATCATTCCTCTTCTTCATGTTTGGGGGGGGGCGCAAGCAGCGCTGCTCTC 240
 QY 802 GGGGGGGGCGCATGTGAGCGTGAAGCCGTGAGACCAAGTGTGGGTGAGGTGGTGGG 861
 DB 241 GGGGGGGGCGCATGTGAGCGTGAAGCCGTGAGACCAAGTGTGGGTGAGGTGGTGGG 300
 QY 862 TGACTACATTTGGCATCTATGCGACATCAAGACAGACAGCCTTCTCCGATTTCTGT 921
 DB 301 TGACTACATTTGGCATCTATGCGACATCAAGACAGACAGCCTTCTCCGATTTCTGT 360
 QY 922 GTACTCCGACTGGACAGCTCCCGAGTCTTGTAGTGGCACTGCAAAAGTGGAGCAT 981
 DB 360 GTACTCCGACTGGACAGCTCCCGAGTCTTGTAGTGGCACTGCAAAAGTGGAGCAT 981

DB 361 GTACTCCGACTGGACAGCTCCCGAGTCTTGTAGTGGCACTGCAAAAGTGGAGCAT 420
 QY 982 GCTCTCACTCTCTTAAGAGAGGTGTGAGCTGACACACAGTCAATCAGAGAGGC-TGGC 1040
 DB 421 GCTCTCACTCTCTTAAGAGAGGTGTGAGCTGACACACAGTCAATCAGAGAGGC-TGGC 480
 QY 1041 CCCCCTGGATATTGTAATGACTAGAGAGGTGGGTAGAGC-ACTCTCGCTGCTGTC 1099
 DB 481 CCCCCTGGATATTGTAATGACTAGAGAGGTGGGTAGAGC-ACTCTCGCTGCTGTC 540
 QY 1100 TGGCAAGGATGGAGACAGTGGCTGCTGTCAGTACAGGTGTG-CAGCATGGGCGAGTGGC 1158
 DB 541 TGGCAAGGATGGAGACAGTGGCTGCTGTCAGTACAGGTGTG-CAGCATGGGCGAGTGGC 600
 QY 1159 TGGATTTTCCCGCAGACAGCAG-AGAGTGTGCTGTGCTGCGCAAGTG-TAAGTCCCGAGT 1216
 DB 601 TGGATTTTCCCGCAGACAGCAGAGTGTGCTGTGCGCAAGTG-TAAGTCCCGAGT 660
 QY 1217 T-GCTGTGTCAGAGAGCCAGC-GTGGGCTGCTCTT-CCTGCTCTGCTGCTGTG 1273
 DB 661 TAGCTGTGTCAGAGAGCCAGCAGAGTGTGCTGTGCTGCTGCTGCTGCTGCTG 720
 QY 1274 GATCTTCCCGCAGCCCTCTGCTGCTGCGCGCGCCCTTTCTCAGATCACTCAATA 1333
 DB 721 GATCTTCCCGCAGCCCTCTGCTGCTGCGCGCGCCCTTTCTCAGATCACTCAATA 780
 QY 1334 AC 1335
 DB 781 AC 782

RESULT 9
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 60103186761 NIH_MGC_115 Homo sapiens cDNA clone IMAGE:5172880 5',
 LOCUS
 DEFINITION
 mRNA sequence.
 BI490062
 accession BI490062.1 GI:15329290
 version
 keywords EST.
 source human.
 organism Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NIH-MGC http://mgi.ncl.nih.gov/
 NIH (bases 1 to 887)
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-remail.nih.gov
 Tissue Procurement: Life Technologies, Inc.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: L14M1430 row: 1 column: 17
 High quality sequence stop: 815.
 Location/Qualifiers
 1..887
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:5172880"
 /clone_lib="NIH_MGC_115"
 /lab_host="DH10B"
 /note="Organ: pooled brain, lung, testis; Vector:
 pCMV-Sport6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
 source anonymous pool of 6 male brains, age 69, library is
 oligo-dT primed and directionally cloned (EcoRV site is
 destroyed upon cloning). Average insert size 1.8 kb,
 insert size range 1-3 kb. Library is normalized and
 enriched for full-length clones and was constructed by C.

FEATURES
 source

BASE COUNT	93 a	215 c	257 g	65 t
ORIGIN				
Query Match	44.1%;	Score 607.2;	DB 12;	Length 630;
Best Local Similarity	99.5%;	Pred. NO. 7.1e-74;		
Matches 609;	Conservative 0;	Mismatches 3;	Indels 0;	Gaps 0;
QY	7	TTCTCTTGAGTCTGTGGAGAGAGAAAGCGAGCCGGCAGGAGACGAAACCAAGACTGTGGGT	66	
Db	19	TCCTCTTGAGTCTGTGGAGAGAGAAAGCGAGCCGGCAGGAGACGAAACCAAGACTGTGGGT	78	
QY	67	GACGGAGAGCCAGGGGGGCGCTGGCCGGGAGAAAGCGCGGGGCTGTGACACACCAACT	126	
Db	79	GACGGAGAGCCAGGGGGGCGCTGGCCGGGAGAAAGCGCGGGGCTGTGACACACCAACT	138	
QY	127	GGAGGGTCCGAGTAGCAGCAGCGCCCGCAAGAGAGCCATCGGGAGAGCGGGAGGACT	186	
Db	139	GGAGGGTCCGAGTAGCAGCAGCGCCCGCAAGAGAGCCATCGGGAGAGCGGGAGGACT	198	
QY	187	GCAGAGAGACCCCGGCGTCCGGGCTCCCGGTGCACACGCTATGAGGGCACCTCTGTGTCT	246	
Db	199	GCAGAGAGACCCCGGCGTCCGGGCTCCCGGTGCACACCTATGAGGGCACCTCTGTGTCT	258	
QY	247	GCTGTCTGTGGGCTTGGCGGCGCGGCTTGCCCCACTGACGACAACAAGATCCCGAGCT	306	

[illegible]

RESULT 12				
BM893587/c				
LOCUS				
DEFINITION	BM893587	596 bp	mRNA	linear
	J126610.x1	Melton Normalized Human Islet 4 M-HIS 1 Homo sapiens		
	cDNA clone IMAGE:6156122 3'	similar to TR-09UFK4 G9UFK4		
ACCESSION	HYPOTHETICAL 22.8 KD PROTEIN ;	mRNA sequence.		
VERSION	BM893587			
KEYWORDS	EST.			
SOURCE	BM893587.1	GI:19349055		
ORGANISM	Homo sapiens			
	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;			
	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
REFERENCE	1 (bases 1 to 596)			
AUTHORS	Melton,D., Brown,J., Keny,G., Pernutt,A., Lee,C., Kaestner,K., Lemisha,I., Scarce,M., Brestelli,J., Gradwohl,G., Clifton,S., Hiller,L., Marra,M., Page,D., Wyllie,E., Martin,J., Blisstein,A., Schmitt,A., Theising,B., Ritzler,E., Honko,I., Bennett,J., Cardenas ,M., Gibbons,M., McCann,R., Cole,R., Tsagarelshvili,R., Williams,T., Jackson,Y. and Bowers,K.			
TITLE	Endocrine Pancreas C-			

JOURNAL
COMMENT

Unpublished (2000)
 Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue
 Endocrine Pancreas Consortium
 Harvard University, Howard Hughes Medical Institute
 Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
 MA 02138
 Tel: 617-495-1812
 Fax: 617-495-8557
 Email: dmelton@biochem.harvard.edu
 Library was constructed by Dr. Douglas Melton DNA sequencing by:
 Washington University Genome Sequencing Center for information on
 obtaining a clone please contact: Juliana Brown
 (brownjefas.harvard.edu)
 Seq primer: -40bp from GIBCO
 High quality sequence stop: 441.
 Location/Qualifiers
 1..596

FEATURES

source

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone IMAGE:6136122"
 /clone_lib="Melton Normalized Human Islet 4 N4-HIS 1"
 /sex="Both"
 /tissue_type="Islets of Langerhans"
 /dev_stage="Adult"
 /lab_host="DH10B"
 /note="Organ: Pancreas; Vector: pSPOR1; Site:1: Not 1;
 Site:2: Sal 1; Starting library constructed using
 Superscript Plasmid Library kit (Life Technologies). cDNA
 made by oligo-dT priming. Size-selected by column
 fractionation; average insert size 1.08 kb. Library was
 amplified once on solid support and plasmid DNA from
 library was prepared. The library DNA was normalized by
 method #4 from Bonaldo, Lennon, and Soares 1996 Genome
 Research 6:791-806; 0.5 microgram single-stranded library
 plasmid DNA was mixed with 5 micrograms PCR product
 representing library inserts and hybridized to an EcoT of
 20. Single-stranded (unhybridized) plasmids were isolated
 by hydroxyapatite chromatography and used to make this
 library."

BASE COUNT 139 a 183 c 169 g 105 t
 ORIGIN

Query Match 43.38; Score 596; DB 14; Length 596;
 Best Local Similarity 100.0%; Pred. No. 2.5e-72;
 Matches 596; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

752 GCCCTCTTTCAGTTTTCGGGGGGTGGCCCAAGCAGCTGCTCGGGGGGCC 811
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 596 GCCTCTTTCAGTTTTCGGGGGGTGGCCCAAGCAGCTGCTCGGGGGGCC 537
 |||||||
 812 ATGTGAGCTGAGCTGAGCAGCAAGTGTGGTGCAGTGGTGGTGGTACTATT 871
 |||||||
 536 ATGTGAGCTGAGCTGAGCAGCAAGTGTGGTGCAGTGGTGGTGGTACTATT 477
 |||||||
 872 GGCATCTATGCCAGCATCAAGACAGACACACCTTCGCGATTTCTGGTACTCCAG 931
 |||||||
 476 GGCATCTATGCCAGCATCAAGACAGACACACCTTCGCGATTTCTGGTACTCCAG 417
 |||||||
 932 TGGCAGAGTCCCACTCTTGGCTTGTAGTGCACATGCAAGAGAGCTATGCTCTACTC 991
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 416 TGGCAGAGTCCCACTCTTGGCTTGTAGTGCACATGCAAGAGAGCTATGCTCTACTC 357
 |||||||
 992 CTGGAAGAGAGGTGTAGAGCTGACCAACAGTCAATCAGAGAGGTGGCCCCCTGGAGAT 1051
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 356 CTGGAAGAGAGGTGTAGAGCTGACCAACAGTCAATCAGAGAGGTGGCCCCCTGGAGAT 297
 |||||||
 1052 ATTGTGAATGAGTCTAGGAGAGTGGGGTGAAGACACTCTCCCTGCTGGCAAGGAATG 1111
 |||||||
 296 ATTGTGAATGAGTCTAGGAGAGTGGGGTGAAGACACTCTCCCTGCTGGCAAGGAATG 237
 |||||||
 1112 GGACAGAGTGGTGTGTGCGATCAGTGTGGCAGATGGGGGAGTGGGAGTTTCTGGCC 1171
 |||||||
 236 GGACAGTGGTGTGTGCGATCAGTGTGGCAGATGGGGGAGTGGGAGTTTCTGGCC 177
 |||||||

1172 AAGACAGAGAGTGTGTGCTGTGCTGCGCAAGTGAAGTCCCAAGTGTGCTGTGCCAGGA 1231
 |||||||
 176 AAGACAGAGAGAGTGTGTGCTGTGCTGCGCAAGTGAAGTCCCAAGTGTGCTGTGCCAGGA 117
 |||||||
 1232 GCCCAGAGTGGGGGCTCTCTCTCTGCTGTGCTGTGCTGTGATCCCTCCACCCCTTC 1291
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 116 GCCCAGAGTGGGGGCTCTCTCTCTGCTGTGCTGTGCTGTGATCCCTCCACCCCTTC 57
 |||||||
 1292 CTGCTCTGAGGGGCGGCGCCCTTTCTCAGAGATCACTCAATTAACCTAAGACCTTC 1347
 |||||||
 56 CTGCTCTGAGGGGCGGCGCCCTTTCTCAGAGATCACTCAATTAACCTAAGACCTTC 1

RESULT 13

BMS44255 596 bp mRNA linear EST 20-FEB-2002
 BMS44255
 LOCUS
 DEFINITION
 ACCESSION
 VERSION
 KEYWORDS
 SOURCE
 ORGANISM

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homini; Homo.
 NIH-MGC http://mgi.ncl.nih.gov/
 1 (bases 1 to 596)
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgrabs-remail.nih.gov
 Tissue Procurement: Invitrogen

CDNA Library Preparation: Life Technologies, Inc.
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNLN at:
 http://image.llnl.gov
 Plate: LLM12357 row: m column: 08
 High quality sequence stop: 595.
 Location/Qualifiers
 1..596

FEATURES

source

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone IMAGE:5587759"
 /clone_lib="NIH-MGC_125"
 /lab_host="DH10B"
 /note="Organ: ovary (pool of 3); Vector: pCMV-SPORT6;
 Site:1: EcoRV (destroyed); Site:2: NotI; RNA source pool
 of three ovaries, from females ranging in age from 38 to
 49 yo. Library is oligo-dT primed and directionally cloned
 (EcoRV site is destroyed upon cloning). Average insert
 size 2.1 kb, insert size range 1-3.5 kb. Library is
 normalized and enriched for full-length clones and was
 constructed by C. Gruber (Invitrogen). Research Genetics
 tracking code 036."

BASE COUNT 138 a 158 c 172 g 127 t 1 others
 ORIGIN

Query Match 42.68; Score 586.4; DB 13; Length 596;
 Best Local Similarity 99.78; Pred. No. 5e-71;
 Matches 587; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

789 CAGCTCTGCTCTGCGGGGGGCGCATGTTGAGTGGAGCTGAGCAAGTGTGGGTGC 848
 |||||||
 1 CAGCTCTGCTCTGCGGGGGGCGCATGTTGAGTGGAGCTGAGCAAGTGTGGGTGC 60
 |||||||
 849 AGTGGTGTGGTGAATCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 908
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 61 AGTGGTGTGGTGAATCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 120
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 909 CCGGATTTTCTGCTACTCCAGTGTGACAGCTCCCACTCTTTTCTTATGTCACATGC 968
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DB      241  AGGAGGCTGCGCCCGCCCTGGAATATGTGTAATACATAGAGAGGTGGGTAGAGCACTTC 300
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VERSION    B1821899.1 GI:15933449
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SOURCE     human.
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 941)
AUTHORS   NIH-MGC http://mgi.ncl.nih.gov/
TITLE      National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL    Unpublished (1999)
COMMENT    Contact: Robert Strausberg, Ph.D.
            Email: rgs@bts-femail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            cDNA Library Preparation: Life Technologies, Inc.
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: L14M11440 row: P column: 24
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                /note="Organ: pooled brain, lung, testis; Vector:
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                source anonymous pool of 6 male brains, age range 23-27; 1
                male lung, age 27; and 1 male testis, age 69. Library is
                oligo-dT primed and directionally cloned (EcoRV site is
                destroyed upon cloning). Average insert size 1.8 kb.
                Insert size range 1-3 kb. Library is normalized and

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Query Match      42.48; Score 583.2; DB 13; Length 941;
Best Local Similarity 94.38; Pred. No. 1e-70;
Matches 758; Conservative 0; Mismatches 28; Indels 18; Gaps 14;
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ORIGIN
enriched for full-length clones and was constructed by C.
Gruber (Institute). Research Genetics tracking code
021. Note: this is a NIH-MGC Library."
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DB      136  GAGGACCCCGGCGCTGCGGCTCCCGGAGGATATGAG-GCCACTCTGCTCTGCT 195
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DB      196  GCTCTGCTGCTGCTGCGGCTGCGGCTCCCGGAGGATATGAG-GCCACTCTGCTCTG 255
OY      310  CCGGAGGACCCCGGCTGCGGCTCCCGGAGGATATGAG-GCCACTCTGCTCTGCT 368
DB      256  CCGGAGGACCCCGGCTGCGGCTCCCGGAGGATATGAG-GCCACTCTGCTCTGCT 315
OY      369  GCGCGATGCGCGGAGCGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 427
DB      316  GCGCGATGCGCGGAGCGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 375
OY      428  GCGGAGGCGGCGGAGCGGCGGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 487
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DB      556  ACCGCGTGTGTGTAAGACAGAGGAGCATTTACAGCGCGGCTACCGGCGGAGTTAC 615
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DB      616  GAGGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 675
OY      721  GTTGTATGTGTAAGAGATGCGAATCATGCTCTTCTTCTTCTTCTTCTTCTTCTTCT 780
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OY      959  TGCCCACTGCAAGAGCTGATG 982
DB      913  ---CCCTGTCAAGTAGCTCTG 933

RESULT 15
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LOCUS     1128608 x1 Melton Normalized Human Islet 4 N4-HIS 1 Homo sapiens
DEFINITION cDNA clone IMAGE:6136046 3' similar to TR:09UFK4 Q9UFK4
HYPOTHETICAL 22.8 KD PROTEIN ;, mRNA sequence.

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 03:34:16 ; Search time 94 Seconds

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Perfect score: 1377

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Searched: 441362 seqs, 153338381 residues

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post-processing: Minimum Match 08
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**Pred. No.** is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score  | Query Match | Length  | DB | ID                | Description         |
|------------|--------|-------------|---------|----|-------------------|---------------------|
| 1          | 1222.2 | 96.0        | 1347    | 4  | US-09-140-804-1   | Sequence 1, Appl1   |
| 2          | 1296.6 | 94.2        | 1338    | 4  | US-09-336-536-1   | Sequence 1, Appl1   |
| 3          | 717    | 52.1        | 728     | 4  | US-09-336-536-2   | Sequence 2, Appl1   |
| 4          | 692.8  | 50.3        | 1263    | 4  | US-09-336-536-8   | Sequence 8, Appl1   |
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## ALIGNMENTS

RESULT 1  
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; Sequence 1, Application US/09140804  
; Patent No. 6107020

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| Matches 1324; Conservative | 0;     | Mismatches 3;       | Indels 0; | Gaps 0       |

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| QY | 220 | CACCGGTATGAGGGCCACTCGTCTGTGTCTGTCTGTGGGCTGAGCGCGGCTCGCCCC | 27 |
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| QY | 280 | ACTGAGCGACAACAAAGATCCCGAGCTCGCCGGGAGACCCGGGCTTTCAGGAGAGCC | 33 |
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 Db 1331 AAAAAA 1337

RESULT 2  
 US-09-336-536-1

Sequence 1, Application US/09336536  
 Patent No. 6406884  
 GENERAL INFORMATION:  
 APPLICANT: Leydy, K.  
 APPLICANT: McKay, C.  
 APPLICANT: Bossone, S.  
 TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF  
 FILE REFERENCE: 7853-144  
 CURRENT APPLICATION NUMBER: US/09/336,536  
 CURRENT FILING DATE: 1999-06-18  
 NUMBER OF SEQ ID NOS: 75  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 1  
 LENGTH: 1338  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 US-09-336-536-1

Query Match 94.2%; Score 1296.6; DB 4; Length 1338;  
 Best Local Similarity 99.6%; Pred. No. 7.7e-252;  
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| Db | 854  | CAGACAGCACTCTCCGATTCTGTGTACTCCAGACAGGACACACCTCCCAAGTCTTG        | 913  |
| QY | 954  | CTTAGAGCCACTGGCAAAATGAGCTCATGCTCTCACTCTTAGAAGAGGGGTGAGGCTG      | 1013 |
| Db | 914  | CTTAGAGCCACTGGCAAAATGAGCTCATGCTCTCACTCTTAGAAGAGGGGTGAGGCTG      | 973  |
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| QY | 1134 | AGGTGTGCACAGCATGGGGCAGTGGCTGTGATTCTTCCCAACACAGAGAGGTGCTGTG      | 1193 |
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| Db | 1154 | CTGGCAATGTAAAGTCCGCCAGATTGCTGTGGTCCAGAGAGCCACAGGTGGGTCTCTCTT    | 1213 |
| QY | 1254 | CCTGGTCTCTGTCTTCTGTGATCCTCCCAACCCCTCTCTGTCTGTGGGCGGGCCCTTT      | 1313 |
| Db | 1214 | CCTGGTCTCTGTCTTCTGTGATCCTCCCAACCCCTCTCTGTCTGTGGGCGGGCCCTTT      | 1273 |
| QY | 1314 | TCTCAGAGATCACTCAATAACTAAAGAAACCTATAAAAAAAAAAAAAAAAAAAAAA        | 1368 |
| Db | 1274 | TCTCAGAGATCACTCAATAACTAAAGAAACCTATAAAAAAAAAAAAAAAAAAAAAA        | 1328 |

```

1 RESULT 3
2 US-09-336-536-2
3 : Sequence 2, Application US/09336536
4 : Patent No. 6406884
5 : GENERAL INFORMATION:
6 : APPLICANT: Lelby, K.
7 : APPLICANT: McKay, C.
8 : APPLICANT: Bossone, S.
9 : TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
10 : FILE REFERENCE: 7853-144
11 : CURRENT APPLICATION NUMBER: US/09/336,536
12 : CURRENT FILING DATE: 1999-06-18
13 : NUMBER OF SEQ ID NOS: 75
14 : SOFTWARE: PatentIn Ver. 2.0
15 : SEQ ID NO 2
16 : LENGTH: 728
17 : TYPE: DNA
18 : ORGANISM: Homo sapiens
19 : US-09-336-536-2

```

|                       |              |                     |            |             |
|-----------------------|--------------|---------------------|------------|-------------|
| Query Match           | 52.18;       | Score 717;          | DB 4;      | length 728; |
| Best Local Similarity | 99.98;       | Pred. No. 1.4e-135; |            |             |
| Matches 728;          | Conservative | 0;                  | Mismatches | 0;          |
|                       |              |                     | Indels     | 1.          |
|                       |              |                     | Gaps       | 1           |

|    |     |                                                                   |     |
|----|-----|-------------------------------------------------------------------|-----|
| QY | 227 | ATATAGGCCACTCCTGCTCTGCTGCTCTGCTGAGGCTTGAGCGCGCGGCTTCGCGCCCACTGAC  | 286 |
| Db | 1   | ATTAGGCGCACTCTCTGCTCTGCTGCTCTGCTGAGGCTTGAGCGCGCGGCTTCGCGCCCACTGAC | 60  |
| QY | 287 | GACAAACAATCCCCAGGCTGTGCGCCGGGAGACCCCGGCTTCCAGGCACGCCGGGCGAC       | 346 |
| Db | 61  | GACAAACAATCCCCAGGCTGTGCGCCGGGAGACCCCGGCTTCCAGGCACGCCGGGCGAC       | 120 |
| QY | 347 | CATGCGAGCGACGGCTTCCGGGCGCGGATGACCGCGACGGCGGCGAGCGGCGCGCGCGG       | 406 |
| Db | 121 | CATGCGAGCGACGGCTTCCGGGCGCGGATGACCGCGACGGCGGCGAGCGGCGCGCGCGG       | 180 |

|    |     |                                                                |     |
|----|-----|----------------------------------------------------------------|-----|
| QY | 407 | GCCTCGGGAGAGAAAAGCGGAGCGCGGGAGCGCGGAGCTGCGGGACCTCGAGGGGACCCC   | 46  |
| Db | 181 | GGCTCCGGGAGAAAAGGGGAGGGGGGGGAGG -CGGAGCTCGCGGAGCTCGAGGGGACCCC  | 23  |
| QY | 467 | GGGCGCCGAGGAGGAGCGGGAGCCGGGGGGGGCCACCGGGGCTGCCGGGAGTGTCTGGTG   | 52  |
| Db | 240 | GGGCCCCGAGGAGGAGGGCGGGAGCCGGCGGGGCCACCGGGGCTGTCCGGGAGTGTCTGGTG | 29  |
| QY | 527 | CCTCCGCGATCCGCCCTTTCAGCCCAAGCGCTCCGAGAGCCGGGGTGCTGCCGGCGTAC    | 58  |
| Db | 300 | CCCTCGCGATCCGCCCTTTCAGCCCAAGCGCTCCGAGAGCCGGGGTGCTGCCGGCGTAC    | 35  |
| QY | 587 | GCACCCCTTCCCTTTCAGCCCGCTCTCTGTGTAAGCAGCAGGAGCATTACAGCGCCTCAC   | 64  |
| Db | 360 | GCACCCCTTCCCTTTCAGCCCGCTCTCTGTGTAAGCAGCAGGAGCATTACAGCGCCTCAC   | 41  |
| QY | 647 | GGCAGATTACCTCGCAGGTGGCCGGGGGGTCTACTTGGCGCTCCATGCCACGGTAC       | 706 |
| Db | 420 | GGCAGATTACCTCGCAGGTGGCCGGGGGGTCTACTTGGCGCTCCATGCCACGGTAC       | 479 |
| QY | 707 | CGGGCAGCCCTGCAGTTTGTATCTGTGTGAAGAAATGCGAAATCCATTGCCCTTTCTTCAG  | 76  |
| Db | 480 | CGGGCAGCCCTGCAGTTTGTATCTGTGTGAAGAAATGCGAAATCCATTGCCCTTTCTTCAG  | 539 |
| QY | 767 | TTTTTCCGGGGGGTGGCCCAAGCCAGCCTCGCTCTCGGGGGGGCCATGATGAGGCTGAG    | 828 |
| Db | 540 | TTTTTCCGGGGGGTGGCCCAAGCCAGCCTCGCTCTCGGGGGGGCCATGATGAGGCTGAG    | 599 |
| QY | 827 | CCTGAGGACCAAGTGTGGGTGCAGGTGGGGTGGGTGGGACTACATTGGATCTTATGCCAG   | 886 |
| Db | 600 | CCTGAGGACCAAGTGTGGGTGCAGGTGGGGTGGGTGGGACTACATTGGATCTTATGCCAG   | 659 |
| QY | 887 | ATCAAGACAGACAGCAGCTTCTCCGATTCTGTGTACTCCGACTGGCAGCAGCTCCCA      | 946 |
| Db | 660 | ATCAAGACAGACAGCAGCTTCTCCGATTCTGTGTACTCCGACTGGCAGCAGCTCCCA      | 719 |
| QY | 947 | GTCCTTGGCT 955                                                 |     |
| Db | 720 | GTCCTTGGCT 728                                                 |     |

```

RESULT 4
US-09-336-536-8
; Sequence 8, Application US/09336536
; Patent No. 6406884
; GENERAL INFORMATION
; APPLICANT: Leiby, K.
; APPLICANT: McKay, C.
; APPLICANT: Bossone, S.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-144
; CURRENT APPLICATION NUMBER: US/09/336,536
; CURRENT FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1263
; TYPE: DNA
; ORGANISM: Mus musculus
; US-09-336-536-8

```

|    |                           |                                                              |                     |            |              |
|----|---------------------------|--------------------------------------------------------------|---------------------|------------|--------------|
|    | Query Match               | 50.3%                                                        | Score 692.8;        | DB 4;      | Length 1263; |
|    | Best Local Similarity     | 78.0%;                                                       | Pred. No. 1.le-130; |            |              |
|    | Matches 917; Conservative | 0;                                                           | Mismatches 237;     | Indels 22; | Gaps 6;      |
| QY | 189                       | GAGAGACCCCGGCTCCGGGCTCCGCATGAGGCCACTCTCTGTCTTGC              | 248                 |            |              |
|    |                           |                                                              |                     |            |              |
| Db | 97                        | GAGAGTTCTTGGAATCTGAGCCTTCGCGGGTGCAACCATTGAGGCCACTTTCGGCCCTTC | 156                 |            |              |
|    |                           |                                                              |                     |            |              |
| QY | 249                       | TGCTCTCGGGCTGGCGGCGCGCTCGCGCCCATGTGAGACGCAAAAGATCCCACGCTCT   | 308                 |            |              |
|    |                           |                                                              |                     |            |              |
| Db | 157                       | TGCTTCTGGGTCTGTTGTCAGAGCTCTTCTCTCTTGAGCACAAGAATCCCAACCTGT    | 216                 |            |              |
|    |                           |                                                              |                     |            |              |



```

RESULT 5
US-09-188-930-218
: Sequence 218, Application US/09188930A
: Patent No. 6150502
:
: GENERAL INFORMATION:
:
: APPLICANT: Watson, James D.
: APPLICANT: Strachan, Lorna
: APPLICANT: Sleeman, Matthew
: APPLICANT: Onrust, Rene
:
: TITLE OF INVENTION: Compositions Isolated From Skin Cells
:
: TITLE OF INVENTION: and Methods For Their Use
:
: FILE REFERENCE: 11000.1011c1
:
: CURRENT APPLICATION NUMBER: US/09/188,930A
:
: CURRENT FILING DATE: 1998-11-09
:
: NUMBER OF SEQ ID NOS: 348
:
: SOFTWARE: FastSeq for Windows Version 3.0
:
: SEQ ID NO 218
:
: LENGTH: 1001
:
: TYPE: DNA
:
: ORGANISM: Rat
:
: US-09-188-930-218

```

|                       |        |            |        |              |
|-----------------------|--------|------------|--------|--------------|
| Query Match           | 44.08; | Score 606; | DB 3;  | Length 1001; |
| Best Local Similarity | 78.69; | Pred No 3  | 78.11; |              |

Matches 739: Conservative 0; Wt-b 107  
Similarity 78.6%; Pred. No. 2.7e-113;

|         |     |              |   |            |     |        |   |      |   |
|---------|-----|--------------|---|------------|-----|--------|---|------|---|
| Matches | 739 | conservative | 0 | Mismatches | 195 | Indels | 6 | Gaps | 1 |
|---------|-----|--------------|---|------------|-----|--------|---|------|---|

66 TGACGGCAGGGCAAGGGGGCGCTGGCCGGGAGAACCGCGGGGGCTGGAGCACCAAC 125

**OY**

126 TGGAGGCTCCCGAGTAGACGAAGCCCCCAAGCAGGCCATTCGCCCATTGCGGCCTTGTGGTGTTGGAGAGTGGGAGCACAGGCCAACAGCAGGAGC 90

91 GTC TAGGAAGCATTCAAAGCGAGCAGCTGGAGACCTGGGGACCCGGGAAGGGCCTTAC 150

186 TG-----CGACGAGCACCCCGCGTCCGGGTGCCAGCGCTATGAGCCACTCC 239

240 TCGTCTGCTGCTGCTGGGCGCTGGGCGGCGGGGTTCGGGCCCCACGCCAGCCAGCAGCAATTC 210

211 TTGGCCTGCTGCTCTTGCGCTGGCATCAGGCTCTCCCTCTGGAGACACACAGATCC 270

300 CCACGCTCTGCCCCGGGGACCCCGGCTTCCAGGCACGCCGGGGCCACCATGGGACGCCAGC 359

[illegible]

331 GCCTGCGCTGGCCGCTGATGCGCCGCGACGTCGACACCCGGAGCTCCGGGAGAGA 390

420 AAGCGAGGCGGAGCGCGACTGCGAGGGACCCCGGGCCGCGAG 479

[illegible]

451 AGGCAGCCTGTGGGGCTATCGGGCCTGGGGGGAGATGCTCGGTGCCCCCAGCATCAG 510

540 CCTTACGGCCCAAGCGCTCCGAGAGCGCGGTGCTCCGCCGTCTGACGACCCCTTGCCCT 599

600 TCGACCGCGTGCCTGGTGAACGAGCAGGGAATTACGACCGCGCTACACCGCCCTACCCCT 570

571 TCGACCGTGTCTGCTCAATGAGCAGGACATTACGATGGCAGTACCGGCACTTCACCT 630

660 GCCAGGTGCGCTGGGCTACTTCCGCCGTCCATGCACCGTCACCGGCCAGCCTGC 719  
|||||  
631 CCGAATTCGCGCTGGGCTACTTCCGCCGTCCATGCACCGTCACCGGCCAGCCTGC

720 AGTTTGATCTGCTGAGAGATGGCGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGGGG 770







```

; NAME/KEY: modified_base
; LOCATION: all "n" positions
; OTHER INFORMATION: n=a, c, g, or t
US-09-336-536-74

```

|                           |        |                    |           |             |
|---------------------------|--------|--------------------|-----------|-------------|
| Query Match               | 18.7%  | Score 257.8;       | DB 4;     | Length 601; |
| Best Local Similarity     | 72.0%; | Pred. No. 1.8e-43; |           |             |
| Matches 365; Conservative | 0;     | Mismatches 134;    | Indels 8; | Gaps 2      |

Dy  
66 TGACGGCAGAGGCGAGGGGCCCTTGCCCGGGAAGACGCAGGGGCTGGAGACACCAC 125  
||| ||| ||||| | ||| ||| ||| ||| ||| |||  
Db  
96 TGTCAACGAGGCGAGAGGGCTGCTTGTGTTGGGGTAAGAATGGACAGGCGCACAGAGAGG 155

[illegible][illegible]

|  |    |     |                                                      |     |
|--|----|-----|------------------------------------------------------|-----|
|  | DB | 276 | TTGCCCTCCTCTTCTGGGTCAGGCATCCTCTTGACGACAACAATCC       | 335 |
|  | QY | 300 | CGAGCTCTGCCGGGGACCCCGGCTTCAGCAGCAGCGGGCACCATGGCAGCAG | 359 |

[illegible]

420 AAGCGAGGCGGGAGCGCCGGACTGCGCGGACCTTGAGAGGACCCCGGGCCGAGAG 479  
|||||  
456 AAGCGAGGCGGGAGAGCCGGACTACCTGGGCGACAGTGGAGCCCGGGCGGCTTGAG 515  
|||||

480 AGCGGGGAGCCGGGGGGCCACCGGGGCTTCCCGGAGTCTCGGTGCTCCGACATCG 539  
 516 AGCGAGAGACTCTGCGGGCTATCGGGCTCGGNGGAGATGCTCGGTGC--CCACGATCA 573

574 GCTTCAGTCGCAAGCGATCAGAAAGCC 600

US-09-188-930-26  
Sequence 26, Application US/09188930A  
Patent No. 6150502  
GENERAL INFORMATION:

APPLICANT: Watson, James D.  
 APPLICANT: Strachan, Lorna  
 APPLICANT: Sleeman, Matthew  
 APPLICANT: Onrust, Rene  
 APPLICANT: Mutton, Irene

TITLE OF INVENTION: Compositions Isolated From Skin Cells  
TITLE OF INVENTION: and Methods For Their Use  
FILE REFERENCE: 11000.1011C1  
CURRENT APPLICATION NUMBER: US/09/188.930A

NUMBER OF SEQ ID NOS: 348  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO: 26  
LENGTH: 393

ORGANISM: Rat  
 S-09-188-930-26  
 Query Match  
 10.0% 55000 140 5 55 5

|         |      |              |    |            |      |        |    |      |    |
|---------|------|--------------|----|------------|------|--------|----|------|----|
| Matches | 250; | Conservative | 0; | Mismatches | 104; | Indels | 8; | Gaps | 3; |
|---------|------|--------------|----|------------|------|--------|----|------|----|

QY 66 TGACGGCAGGCGAGGGCCCTGCGCCGGGAGAAAGCCGCGGGGCTTGAGCTACCAACCANC 135

Db 33 TGTACGAGAGGCGAGGGGCTGCCGTGTTGGGATAGCAATGGAGACAGGGCCAGAGGAGG 92

Oy 126 TGGAGGCTCCGAGCTAGCGAGGCGCCCGAAGGAGGCCATCGGGAGCCGGGAGGGGGAC 185

186 TG-----CGAGNGAGCCCGGGCGTGGGGGTCCCGGTGCCAGCGCTATGAGGCCACTCC 239

**OY**

**240** TCGTCTGCTGCCTCCTGGAGCTGGGCGGCCGCTGGCCCACTGACAGACAATCATTC 299  
| | | | | | | | | | | | | | | | | | | | |  
**Dδ**   **213** TTGCCCTGCTGTTTGCGGTGCGCATAGGCTCTCCCTCTGAGAGAACAAATGTC 272  
| | | | | | | | | | | | | | | | | | | | |

Dy 300 CCAGGCTCTGCCGGGGGACCCCGGCCTTCAGGACAGCGCGGACACAGGACGCGCAGG 359  
||||||| | | ||||| ||||| | | ||||| | | ||||| |  
Db 273 CCAGGCTGTGTCCCAGGACGCCCCGCTCCAGGACACAGGCGCACACAGGCGAGCGCAGG 332

Db  
333 GCCTCCCTGCGCGGTGCACGCCGGAG -TCCGGAGAGACA 390

420 AA 421

|             |    |     |    |     |
|-------------|----|-----|----|-----|
|             | Db | 391 | AA | 392 |
|             |    |     |    |     |
| PFESTITM 11 |    |     |    |     |

US-08-463-911-1  
; Sequence 1, Application US/08463911  
; Patent No. 5869330  
; GENERAL INFORMATION:

APPLICANT: Lodish, Harvey F.  
TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED  
TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES  
NUMBER OF SEQUENCES: 7

CONTRACTOR: ADDRESS:  
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
STREET: TWO Militia Drive  
CITY: Lexington  
STATE: Massachusetts

COUNTRY: USA  
ZIP: 02173  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTED FROM:

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/463,911

CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227

REFERENCE/DOCKET NUMBER: WH195-05  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 861-6240  
TELEFAX: (617) 861-9540  
INFORMATION FOR SFO ID NO. 1

SEQUENCE CHARACTERISTICS:  
LENGTH: 1276 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
FORMAT: *motif*

MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 46..786

Query Match 6.6%; Score 90.6; DB 2; Length 1276;  
 Best Local Similarity 51.5%; Pred. No. 7.3e-10;  
 Matches 316; Conservative 0; Mismatches 279; Indels 18; Gaps 4;

QY 333 GCACCGCCGCGCCACCATGACGACCCAGGCTTGCCTGCGCGCGGAGTCCGCGACGCGCCG 392  
 DB 170 GGAATGCGACGATCCCGACATCTCTGCGCACMAATGCGCACACACGACGCGCTGATGCGAG 229  
 QY 393 ACGCGCGCGCGCGCGCGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 452  
 DB 230 ATGGACACTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 289  
 QY 453 CTCGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 512  
 DB 290 AGACAGAGAGATGTTGGAATGACAGAGAGCTGAAGAGGCGCACGCGGCTTCCCGGACCCCTG 349  
 QY 513 GGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 568  
 DB 350 GCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 409  
 QY 569 GTGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 620  
 DB 410 TGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 469  
 QY 621 AGCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 680  
 DB 470 AACGAATCATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 529  
 QY 681 ACTTGGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 740  
 DB 530 ACTTCTTACCAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 589  
 QY 741 GCGAATCATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 800  
 DB 590 ACAAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 846  
 QY 801 CCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 857  
 DB 647 CTGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 917  
 QY 858 TGGGTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 917  
 DB 707 ATGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 766  
 QY 918 TGGGTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 766  
 DB 767 TTCTTACCATGTA 779

## RESULT 12

US-08-463-911-6  
 Sequence 6, Application US/08463911  
 Patent No. 5869330

## GENERAL INFORMATION:

APPLICANT: Scherer, Philipp E.  
 APPLICANT: Lodish, Harvey F.  
 TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED  
 TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES  
 NUMBER OF SEQUENCES: 7  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
 STREET: Two Millia Drive  
 CITY: Lexington  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02173

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/463,911  
 FILING DATE:  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Granahan, Patricia  
 REGISTRATION NUMBER: 32,227  
 REFERENCE/DOCKET NUMBER: WH195-05  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 861-6240  
 TELEFAX: (617) 861-9540  
 INFORMATION FOR SEQ ID NO: 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1313 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 73..804  
 US-08-463-911-6

Query Match 6.0%; Score 82.2; DB 2; Length 1313;  
 Best Local Similarity 50.1%; Pred. No. 3.6e-08;  
 Matches 316; Conservative 0; Mismatches 303; Indels 12; Gaps 4;

QY 321 CCGGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 380  
 DB 194 CCGGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 253  
 QY 381 CCGGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 440  
 DB 254 CCGGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 313  
 QY 441 GACTCCCGGAGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 500  
 DB 314 GCGAATCATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 373  
 QY 501 CCGGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 560  
 DB 374 AAGGAGAACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 430  
 QY 561 AAGGCGGAGCTTTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 620  
 DB 431 AGACTTACCTTACTATCC--CAACATGCCCATTCGCTTACCAAGATCTTCTACATC 487  
 QY 621 AGCAGGAGATTCAGAGCAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 680  
 DB 488 AGCAAAACCACTATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 547  
 QY 681 ACTTGGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 740  
 DB 548 ACTTGGCTTACCAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 607  
 QY 741 CCGAATCATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 800  
 DB 608 ACAAGGCTTACCTTCTTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 664  
 QY 801 CCGGCGGCGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 859  
 DB 665 CCGGCTTGTGCTCTCTCATCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 724  
 QY 860 --GGTACTCATTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 917  
 DB 725 AAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 784  
 QY 918 TGGGTACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 948  
 DB 785 TTCTTACCATGTA 815

RESULT 13  
 US-09-140-804-9

```

; Sequence 9, Application US/09140804
; Patent No. 6197930
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
; FILE REFERENCE: 97-49
; CURRENT APPLICATION NUMBER: US/09/140,804
; EARLIER FILING DATE: 1998-08-26
; EARLIER APPLICATION NUMBER: 60/056,983
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 9
; LENGTH: 4517
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-140-804-9

```

```

Query Match 6.0%; Score 82.2; DB 4; Length 4517;
Best Local Similarity 50.1%; Pred. No. 4.4e-08;
Matches 316; Conservative 0; Mismatches 303; Indels 12; Gaps 4;

```

```

QY 321 CCGGCTTCAGGACGCGCGCCACCATGGACAGCCGCTTGGCGCGCGCATGGCC 380
DB 148 CGGGATCCCGAGGCGCATCCGGGCATATGGGGCCCGACGCCGCGATGCGAGATGCA 207
QY 381 CGGAGCGCGGCG 440
DB 208 CCGGCTTCAGGACGCGCGCGCCACCATGGACAGCCGCTTGGCGCGCGCATGGCC 267
QY 441 GACTGCGCGGACCTCGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 500
DB 268 GTGAACCGGAGATCCCG 327
QY 501 CCGGCG 560
DB 328 AAGGAGCACTGGAGGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 384
QY 561 AGAGCG 620
DB 385 AGACTTACGTTACTATCC---CCAAATGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 441
QY 621 AGAGGAGCACTTCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 680
DB 442 AGGAAACCACTATGATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 501
QY 681 ACTTGGCG 740
DB 502 ACTTGGCG 561
QY 741 GCGAATTCATTTGCG 800
DB 562 ACAAGGCTATGCG 618
QY 801 CCGGCG 859
DB 619 CCGGCG 678
QY 860 --GGTACATACATTTGGCATCTATGCGAGCATCAAGACAGCACTTTCGGATTTG 917
DB 679 AAGGAGAGGCTATGAGTCTATGCTGATATGACAAATGACTCCACTTTCAGCGCTTTC 738
QY 918 TGGTGTACTCGAGTGGGACAGCACTCCGAGT 948
DB 739 TTCTCTACCATGACACCAACTGATCACCACT 769

```

```

RESULT 14
US-09-118-408-23
; Sequence 23, Application US/09118408A
; Patent No. 6265544
; GENERAL INFORMATION:

```

```

; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: ADIPOCYTE-SPECIFIC PROTEIN HOMOLOGS
; FILE REFERENCE: 97-30
; CURRENT APPLICATION NUMBER: US/09/118,408A
; EARLIER FILING DATE: 1998-07-17
; EARLIER APPLICATION NUMBER: 60/053,154
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 23
; LENGTH: 843
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Degenerate nucleotide sequence encoding zs1937
; FEATURE:
; NAME/KEY: variation
; LOCATION: (1)...(843)
; OTHER INFORMATION: Each N is independently any nucleotide.
US-09-118-408-23

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Query Match 5.6%; Score 77.4; DB 4; Length 843;
Best Local Similarity 30.0%; Pred. No. 3e-07;
Matches 209; Conservative 99; Mismatches 384; Indels 5; Gaps 2;

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QY 233 CCACTCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTG 292
DB 131 CMMNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCC 190
QY 293 AAGATCCCGGAGCTTTCG 352
DB 191 ARGAYCARCGANTTCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCCNCC 250
QY 353 AGCCAGGCGCTTCCCG 410
DB 251 ATCCG 310
QY 411 CCGGAGAGAAAGCG 470
DB 311 GNGGAGAYMGNGANTTNCARAGNARATAYGNAARACGCGCGCGCGCGCGCGCGCGCG 370
QY 471 CCGGAGAGAGGCG 530
DB 371 AYACG 430
QY 531 CCGGATCCCG 590
DB 431 AYTAAGCG 490
QY 591 CCGGCG 650
DB 491 CNGTNATHYTGAYACMGARTTCTTNAAYTNTAYGAYCAVTTTAAATGTTAANGGNA 550
QY 651 AGTTACCG 707
DB 551 ARTTYATATGTAATCCCG 610
QY 708 GCGGCG 767
DB 611 ARAARGARACNTATYATCAATATATGAARAAYGARARGATNGTATHTTTTTCGCGC 670
QY 768 TTTTCGGGCG 827
DB 671 ARGNGNGAYMGWMSNATATGACARMSNARSNTTATGYTNGARYTNGMGARCARNG 730
QY 828 CTGAGACCAAGTGTGCG 887
DB 731 AYCARGTNTGGTNGMGTATTAARAAGNGARNGARNGARNGARNGARNGARNGARNGAR 790
QY 888 TCAAGACAGACG 924
DB 791 TNGAYACNTAYATACNTTAYTWSNGTAYTNGTNA 827

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 22, 2003, 04:43:36 ; Search time 225 Seconds  
(without alignments)  
8980.654 Million cell updates/sec

Title: US-09-943-851A-41

Perfect score: 1377  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1042519 seqs, 733713590 residues

Total number of hits satisfying chosen parameters: 2085038

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications, NA:\*

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- 2: /cgn2\_6/ptodata/2/pubpna/ECT\_NEM\_PUB.seq:\*
- 3: /cgn2\_6/ptodata/2/pubpna/US06\_NEM\_PUB.seq:\*
- 4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq:\*
- 5: /cgn2\_6/ptodata/2/pubpna/US07\_NEM\_PUB.seq:\*
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- 13: /cgn2\_6/ptodata/2/pubpna/US60\_NEM\_PUB.seq:\*
- 14: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

| Result No. | Score | Query Match | Length DB | ID | Description       |
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| 1          | 1377  | 100.0       | 1377      | 9  | US-09-944-413-41  |
| 2          | 1377  | 100.0       | 1377      | 9  | US-09-944-403-41  |
| 3          | 1377  | 100.0       | 1377      | 9  | US-09-944-896-41  |
| 4          | 1377  | 100.0       | 1377      | 9  | US-09-944-944-41  |
| 5          | 1377  | 100.0       | 1377      | 9  | US-09-944-907-41  |
| 6          | 1377  | 100.0       | 1377      | 9  | US-09-944-929-41  |
| 7          | 1377  | 100.0       | 1377      | 9  | US-10-028-072-361 |
| 8          | 1377  | 100.0       | 1377      | 9  | US-10-121-048-361 |
| 9          | 1377  | 100.0       | 1377      | 9  | US-10-123-904-361 |
| 10         | 1377  | 100.0       | 1377      | 9  | US-10-140-470-361 |
| 11         | 1377  | 100.0       | 1377      | 9  | US-10-175-746-361 |
| 12         | 1377  | 100.0       | 1377      | 9  | US-10-176-918-361 |
| 13         | 1377  | 100.0       | 1377      | 9  | US-10-137-865-361 |
| 14         | 1377  | 100.0       | 1377      | 9  | US-10-140-474-361 |
| 15         | 1377  | 100.0       | 1377      | 9  | US-10-142-431-361 |
| 16         | 1377  | 100.0       | 1377      | 9  | US-10-143-114-361 |
| 17         | 1377  | 100.0       | 1377      | 9  | US-10-140-002-361 |
| 18         | 1377  | 100.0       | 1377      | 9  | US-10-142-419-361 |
| 19         | 1377  | 100.0       | 1377      | 9  | Sequence 361, App |

|    |      |       |      |   |                   |                   |
|----|------|-------|------|---|-------------------|-------------------|
| 20 | 1377 | 100.0 | 1377 | 9 | US-10-123-262-361 | Sequence 361, App |
| 21 | 1377 | 100.0 | 1377 | 9 | US-10-142-423-361 | Sequence 361, App |
| 22 | 1377 | 100.0 | 1377 | 9 | US-10-121-050-361 | Sequence 361, App |
| 23 | 1377 | 100.0 | 1377 | 9 | US-10-141-755-361 | Sequence 361, App |
| 24 | 1377 | 100.0 | 1377 | 9 | US-10-143-032-361 | Sequence 361, App |
| 25 | 1377 | 100.0 | 1377 | 9 | US-10-123-108-361 | Sequence 361, App |
| 26 | 1377 | 100.0 | 1377 | 9 | US-10-123-236-361 | Sequence 361, App |
| 27 | 1377 | 100.0 | 1377 | 9 | US-10-123-261-361 | Sequence 361, App |
| 28 | 1377 | 100.0 | 1377 | 9 | US-10-123-921-361 | Sequence 361, App |
| 29 | 1377 | 100.0 | 1377 | 9 | US-10-140-928-361 | Sequence 361, App |
| 30 | 1377 | 100.0 | 1377 | 9 | US-10-121-045-361 | Sequence 361, App |
| 31 | 1377 | 100.0 | 1377 | 9 | US-10-123-292-361 | Sequence 361, App |
| 32 | 1377 | 100.0 | 1377 | 9 | US-10-123-903-361 | Sequence 361, App |
| 33 | 1377 | 100.0 | 1377 | 9 | US-10-124-819-361 | Sequence 361, App |
| 34 | 1377 | 100.0 | 1377 | 9 | US-10-124-822-361 | Sequence 361, App |
| 35 | 1377 | 100.0 | 1377 | 9 | US-10-140-925-361 | Sequence 361, App |
| 36 | 1377 | 100.0 | 1377 | 9 | US-10-160-498-361 | Sequence 361, App |
| 37 | 1377 | 100.0 | 1377 | 9 | US-09-944-884-41  | Sequence 41, App  |
| 38 | 1377 | 100.0 | 1377 | 9 | US-10-121-041-361 | Sequence 361, App |
| 39 | 1377 | 100.0 | 1377 | 9 | US-10-121-043-361 | Sequence 361, App |
| 40 | 1377 | 100.0 | 1377 | 9 | US-10-121-047-361 | Sequence 361, App |
| 41 | 1377 | 100.0 | 1377 | 9 | US-10-123-215-361 | Sequence 361, App |
| 42 | 1377 | 100.0 | 1377 | 9 | US-10-123-902-361 | Sequence 361, App |
| 43 | 1377 | 100.0 | 1377 | 9 | US-10-123-908-361 | Sequence 361, App |
| 44 | 1377 | 100.0 | 1377 | 9 | US-10-123-909-361 | Sequence 361, App |
| 45 | 1377 | 100.0 | 1377 | 9 | US-10-123-910-361 | Sequence 361, App |

#### ALIGNMENTS

RESULT 1  
US-09-944-413-41  
Sequence 41, Application US/09944413  
Patent No. US20020156004A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gertsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kijavio, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1  
CURRENT APPLICATION NUMBER: US/09/944.413  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,335  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,278  
PRIOR FILING DATE: December 11, 1997  
PRIOR APPLICATION NUMBER: 60/069,425  
PRIOR FILING DATE: December 12, 1997  
PRIOR APPLICATION NUMBER: 60/069,696  
PRIOR FILING DATE: December 16, 1997  
PRIOR APPLICATION NUMBER: 60/069,694  
PRIOR FILING DATE: December 16, 1997



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1 PRIOR APPLICATION NUMBER: 60/069,702
2 PRIOR FILING DATE: December 16, 1997
3 PRIOR APPLICATION NUMBER: 60/069,870
4 PRIOR FILING DATE: December 17, 1997
5 PRIOR APPLICATION NUMBER: 60/069,873
6 PRIOR FILING DATE: December 17, 1997
7 PRIOR APPLICATION NUMBER: 60/068,017
8 PRIOR FILING DATE: December 18, 1997
9 PRIOR APPLICATION NUMBER: 60/070,440
10 PRIOR FILING DATE: January 5, 1998
11 PRIOR APPLICATION NUMBER: 60/074,086
12 PRIOR FILING DATE: February 9, 1998
13 PRIOR APPLICATION NUMBER: 60/074,092
14 PRIOR FILING DATE: February 9, 1998
15 PRIOR APPLICATION NUMBER: 60/075,945
16 PRIOR FILING DATE: February 25, 1998
17 PRIOR APPLICATION NUMBER: 60/112,850
18 PRIOR FILING DATE: December 16, 1998
19 PRIOR APPLICATION NUMBER: 60/113,296
20 PRIOR FILING DATE: December 22, 1998
21 PRIOR APPLICATION NUMBER: 60/146,222
22 PRIOR FILING DATE: July 28, 1999
23 PRIOR APPLICATION NUMBER: PCT/US98/19330
24 PRIOR FILING DATE: September 16, 1998
25 PRIOR APPLICATION NUMBER: PCT/US98/25108
26 PRIOR FILING DATE: December 1, 1998
27 PRIOR APPLICATION NUMBER: 09/216,021
28 PRIOR FILING DATE: December 16, 1998
29 PRIOR APPLICATION NUMBER: 09/218,517
30 PRIOR FILING DATE: December 22, 1998
31 PRIOR APPLICATION NUMBER: 09/254,311
32 PRIOR FILING DATE: March 3, 1999
33 PRIOR APPLICATION NUMBER: PCT/US99/12252
34 PRIOR FILING DATE: June 22, 1999
35 PRIOR APPLICATION NUMBER: PCT/US99/21090
36 PRIOR FILING DATE: September 15, 1999
37 PRIOR APPLICATION NUMBER: PCT/US99/28409
38 PRIOR FILING DATE: No. US20020156004Alamber 30, 1999
39 PRIOR APPLICATION NUMBER: PCT/US99/28313
40 PRIOR FILING DATE: No. US20020156004Alamber 30, 1999
41 PRIOR APPLICATION NUMBER: PCT/US99/28301
42 PRIOR FILING DATE: December1, 1999
43 PRIOR APPLICATION NUMBER: PCT/US99/30095
44 PRIOR FILING DATE: December 16, 1999
45 PRIOR APPLICATION NUMBER: PCT/US00/03565
46 PRIOR FILING DATE: February 11, 2000
47 PRIOR APPLICATION NUMBER: PCT/US00/04414
48 PRIOR FILING DATE: February 22, 2000
49 PRIOR APPLICATION NUMBER: PCT/US00/05841
50 PRIOR FILING DATE: March 2, 2000
51 PRIOR APPLICATION NUMBER: PCT/US00/08439
52 PRIOR FILING DATE: March 30, 2000
53 PRIOR APPLICATION NUMBER: PCT/US00/14042
54 PRIOR FILING DATE: May 22, 2000
55 PRIOR APPLICATION NUMBER: PCT/US00/20710
56 PRIOR FILING DATE: July 28, 2000
57 PRIOR APPLICATION NUMBER: PCT/US00/32678
58 PRIOR FILING DATE: December 1, 2000
59 PRIOR APPLICATION NUMBER: PCT/US01/06520
60 PRIOR FILING DATE: February 28, 2001
61 NUMBER OF SEQ ID NOS: 120
62 SEQ ID NO 41
63 LENGTH: 1377
64 TYPE: DNA
65 ORGANISM: Homo Saplen
66 IS-09-944-413--41

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| Query Match           | 100.0%       | Score 1377                                                       | DB 9       | Length 1377 |
|-----------------------|--------------|------------------------------------------------------------------|------------|-------------|
| Best Local Similarity | 100.0%       | Pred. No. 0                                                      |            |             |
| Matches 1377          | Conservative | 0                                                                | Mismatches | 0           |
|                       |              |                                                                  | Indels     | 0           |
|                       |              |                                                                  | Gaps       | 0           |
| QY                    | 1            | GACTAGTTCCTTTCGACGCTCTGGAGGAGCAAGCGACCGCGACGGGACGGGACCGCAACGAGAC | 60         |             |
|                       |              |                                                                  |            |             |

|    |      |                                                               |      |
|----|------|---------------------------------------------------------------|------|
| Db | 1    | GACTAGTTCCTTGAGCTGTGGAGAGAGAAAGCGGAGCGGAGAGACCAACGACGAC       | 60   |
| QY | 61   | TGGGGTGAACGCGACAGGGGACGGGGCCCTTGGCCGGGAGAAAGCCGGGGCTGGAGCACCA | 120  |
| Db | 61   | TGGGGTGAAGGAGAGGACAGGGGGCCCTTGGCCGGGAGAAAGCGGGGGCTGGAGCACCA   | 120  |
| QY | 121  | CCAACTGAGAGGCTCCGGAGTACGAGCGGCCCGGAAGAGAGCCATGGGGAGCGCGGAGGG  | 180  |
| Db | 121  | CCAACTGAGAGGCTCCGGAGTACGAGCGGCCCGGAAGAGAGCCATGGGGAGCGCGGAGGG  | 180  |
| QY | 181  | GGAGCTGGCAGAGAACCCCGGGCTCCGGGCTCCGGGTGGCAGCGCTATGAGGCCACTCT   | 240  |
| Db | 181  | GGAGCTGGCAGAGAACCCCGGGCTCCGGGCTCCGGGTGGCAGCGCTATGAGGCCACTCT   | 240  |
| QY | 241  | CGTCTGCTGCTCTCTGGGCTTGGGGCCGGCTCGGCCCACTGAGACGACACAGATCCC     | 300  |
| Db | 241  | CGTCTGCTGCTCTCTGGGCTTGGGGCCGGCTCGGCCCACTGAGACGACACAGATCCC     | 300  |
| QY | 301  | CAGCCTTGCCCCGGGGGCAACCCCGGCTTCAGGACAGCGCGGGCCACGANTGGACGAGG   | 360  |
| Db | 301  | CAGCCTTGCCCCGGGGGCAACCCCGGCTTCAGGACAGCGCGGGCCACGANTGGACGAGG   | 360  |
| QY | 361  | CTTGCCGGGGCCGCGATGAGCCGCGAGCGCGCGACGCGCGCCCGGGGGCTCCGGGAGAGA  | 420  |
| Db | 361  | CTTGCCGGGGCCGCGATGAGCCGCGAGCGCGCGACGCGCGCCCGGGGGCTCCGGGAGAGA  | 420  |
| QY | 421  | AGCGAGAGGCGGAGAGCGCGGCACTCCGGGAGCTTCGAGGGGACCCCGGGCCGCGAGAGA  | 480  |
| Db | 421  | AGCGAGAGGCGGAGAGCGCGGCACTCCGGGAGCTTCGAGGGGACCCCGGGCCGCGAGAGA  | 480  |
| QY | 481  | GGCGGGACCCCGGGGGCCACCGGGCTTCGGGGGAGTGTGGTGGCTCCGCGATCCGC      | 540  |
| Db | 481  | GGCGGGACCCCGGGGGCCACCGGGCTTCGGGGGAGTGTGGTGGCTCCGCGATCCGC      | 540  |
| QY | 541  | CTTCAGCGCCCAAGCGCTCCGAGAGCGGGGTGCGCTCCGGCTGACGACCCCTTCCCT     | 600  |
| Db | 541  | CTTCAGCGCCCAAGCGCTCCGAGAGCGGGGTGCGCTCCGGCTGACGACCCCTTCCCT     | 600  |
| QY | 601  | CGACCGCGTGTGTGAACGAGACGAGGAGCATTCAGACGCGCTCACCGGCAAGTTACCTG   | 660  |
| Db | 601  | CGACCGCGTGTGTGAACGAGACGAGGAGCATTCAGACGCGCTCACCGGCAAGTTACCTG   | 660  |
| QY | 661  | CCAGGTGCTGGGGTCTACTACCTTCGCGCTCATGCGCCGCTCAACCGCGAGCTGCA      | 720  |
| Db | 661  | CCAGGTGCTGGGGTCTACTACCTTCGCGCTCATGCGCCGCTCAACCGCGAGCTGCA      | 720  |
| QY | 721  | GTTTGATCTGTGAAGAAATGCGAATCCATTCGCTTCCTTCCAGTTTTCGGGGGGTG      | 780  |
| Db | 721  | GTTTGATCTGTGAAGAAATGCGAATCCATTCGCTTCCTTCCAGTTTTCGGGGGGTG      | 780  |
| QY | 781  | GCCCAAGCAGCCCTCGCTTCGGGGGGGGCCATGCTGAGGCTGAGAGCTGAGACCAAGT    | 840  |
| Db | 781  | GCCCAAGCAGCCCTCGCTTCGGGGGGGGCCATGCTGAGGCTGAGAGCTGAGACCAAGT    | 840  |
| QY | 841  | GTGGGTGAGGTGGGTGTGGTGACTACATTTGSCATCTATGCCACAGCATCAAGACAGAC   | 900  |
| Db | 841  | GTGGGTGAGGTGGGTGTGGTGACTACATTTGSCATCTATGCCACAGCATCAAGACAGAC   | 900  |
| QY | 901  | CACCTTCGCGAATTTCTGCTGTACTCCGATGGCAGACGCTCCCAAGCTCTTGTAGTG     | 960  |
| Db | 901  | CACCTTCGCGAATTTCTGCTGTACTCCGATGGCAGACGCTCCCAAGCTCTTGTAGTG     | 960  |
| QY | 961  | CCCACTGCAAAAGTAGCTATGCTCTACCTCTATGAAAGAGAGGTGTAGGCTGCAACCA    | 1020 |
| Db | 961  | CCCACTGCAAAAGTAGCTATGCTCTACCTCTATGAAAGAGAGGTGTAGGCTGCAACCA    | 1020 |
| QY | 1021 | GGTCATCAGAGAGGGCTGGCCCCCTGGAATATTGTGAATGACTAGGAGGTGGGTAGA     | 1080 |
| Db | 1021 | GGTCATCAGAGAGGGCTGGCCCCCTGGAATATTGTGAATGACTAGGAGGTGGGTAGA     | 1080 |
| QY | 1081 | GCACCTCCGTCGCTGCTGGGCAAGAAATGGGCAACGTTGGCTCTGCGCATCAAGTCTG    | 1140 |
| Db | 1081 | GCACCTCCGTCGCTGCTGGGCAAGAAATGGGCAACGTTGGCTCTGCGCATCAAGTCTG    | 1140 |



QY 1141 GCACATGGGGCAGTGGCTGATTTCTGCCCAACAGCAGAGAGTGTCTGCTGCCAA 1200  
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QY 1261 CTCTGCTTCTGTGATCTCTCCACCCCTCTCTGCTCTGAGGCGCCCTTTTCTCAGA 1320  
Db 1261 CTCTGCTTCTGTGATCTCTCCACCCCTCTCTGCTCTGAGGCGCCCTTTTCTCAGA 1320  
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Db 1321 GATCCTCATATTAACCTAAGAACCCCTATATTAATATTAATATTAATATTAATATTA 1377

RESULT 2  
US-09-944-403-41  
Sequence 41. Application US/09944403  
Patent No. US20020165143A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Bolstein, David  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gerltisen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaldi, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillan, Kenneth  
APPLICANT: Kijavlin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumas, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P2548P1C1  
CURRENT APPLICATION NUMBER: US/09/944,403  
CURRENT FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 09/866,028  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: 60/067,411  
PRIOR FILING DATE: December 3, 1997  
PRIOR APPLICATION NUMBER: 60/069,334  
PRIOR FILING DATE: December 11, 1997  
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PRIOR FILING DATE: December 17, 1997  
PRIOR APPLICATION NUMBER: 60/068,017  
PRIOR FILING DATE: December 18, 1997  
PRIOR APPLICATION NUMBER: 60/070,440  
PRIOR FILING DATE: January 5, 1998  
PRIOR APPLICATION NUMBER: 60/074,086  
PRIOR FILING DATE: February 9, 1998  
PRIOR APPLICATION NUMBER: 60/074,092

QY PRIOR FILING DATE: February 9, 1998  
Db PRIOR APPLICATION NUMBER: 60/075,945  
QY PRIOR FILING DATE: February 25, 1998  
Db PRIOR APPLICATION NUMBER: 60/112,850  
QY PRIOR FILING DATE: December 16, 1998  
Db PRIOR APPLICATION NUMBER: 60/113,296  
QY PRIOR FILING DATE: December 22, 1998  
Db PRIOR APPLICATION NUMBER: 60/146,222  
QY PRIOR FILING DATE: July 28, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US98/19330  
QY PRIOR FILING DATE: September 16, 1998  
Db PRIOR APPLICATION NUMBER: PCT/US98/25108  
QY PRIOR FILING DATE: December 1, 1998  
Db PRIOR APPLICATION NUMBER: 09/216,021  
QY PRIOR FILING DATE: December 16, 1998  
Db PRIOR APPLICATION NUMBER: 09/218,517  
QY PRIOR FILING DATE: December 22, 1998  
Db PRIOR APPLICATION NUMBER: 09/254,311  
QY PRIOR FILING DATE: March 3, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US99/12252  
QY PRIOR FILING DATE: June 22, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US99/21090  
QY PRIOR FILING DATE: September 15, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US99/28409  
QY PRIOR FILING DATE: No. US20020165143A1ember 30, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US99/28313  
QY PRIOR FILING DATE: No. US20020165143A1ember 30, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US99/28301  
QY PRIOR FILING DATE: December 1, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US99/30095  
QY PRIOR FILING DATE: December 16, 1999  
Db PRIOR APPLICATION NUMBER: PCT/US00/03565  
QY PRIOR FILING DATE: February 11, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US00/04414  
QY PRIOR FILING DATE: February 22, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US00/05841  
QY PRIOR FILING DATE: March 2, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US00/08439  
QY PRIOR FILING DATE: March 30, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US00/14042  
QY PRIOR FILING DATE: May 22, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US00/20710  
QY PRIOR FILING DATE: July 28, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US00/32678  
QY PRIOR FILING DATE: December 1, 2000  
Db PRIOR APPLICATION NUMBER: PCT/US01/06520  
QY PRIOR FILING DATE: February 28, 2001  
Db NUMBER OF SEQ ID NOS: 120  
QY SEQ ID NO 41  
Db LENGTH: 1377  
QY TYPE: DNA  
Db ORGANISM: Homo Sapien  
US-09-944-403-41  
Query Match 100.0%; Score 1377; DB 9; Length 1377;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GACTAGTCTCTTGTGAGTCTGTGAGAGAGAAAGCGAGCCGCGAGCGAGCGAGAGAGC 60  
Db 1 GACTAGTCTCTTGTGAGTCTGTGAGAGAGAAAGCGAGCCGCGAGCGAGCGAGAGAGC 60  
QY 61 TGGGCTGACGCGAGGCGAGGCGGCGCTGCGCGGAGAGACCGCGGCGCTGAGACACCA 120  
Db 61 TGGGCTGACGCGAGGCGAGGCGGCGCTGCGCGGAGAGACCGCGGCGCTGAGACACCA 120  
QY 121 CCACTGAGGAGGCTCCGAGTAGCGAGCCGCCCAAGAGAGCCATCGGGAGACCCGGAGGG 180  
Db 121 CCACTGAGGAGGCTCCGAGTAGCGAGCCGCCCAAGAGAGCCATCGGGAGACCCGGAGGG 180  
QY 181 GGGAGCTGGAGAGAGACCCCGGCGTCCCGGCTCCCGGCTGACAGCCCTATGAGCCACTCT 240  
Db 181 GGGAGCTGGAGAGAGACCCCGGCGTCCCGGCTCCCGGCTGACAGCCCTATGAGCCACTCT 240

|    |      |                                                                |       |
|----|------|----------------------------------------------------------------|-------|
| QY | 241  | CGTCTCTGTGCTCCCTGGGGCCCTGGGGGGCGGCTGCCCCCACTGGAGCAACAAGATCCC   | 3000  |
| Db | 241  | CGTCTCTGTGCTCTCTGGGGCCCTGGGGGGCGGCTGCCCCCACTGGAGCAACAAGATCCC   | 3000  |
| QY | 301  | CAGCCTCTGCCCGGGGACACCCGGGCTCTTCCAGAGCAGCGGGGGCCACCATGGCAGCCAGG | 3600  |
| Db | 301  | CAGCCTCTGCCCGGGGACACCCGGGCTCTTCCAGAGCAGCGGGGGCCACCATGGCAGCCAGG | 3600  |
| QY | 361  | CTTCCCGGGGCGCGCATGGCCGCGCAGCGGCGCGAGCGGCGCCGGGGCTCCGGAGAGAA    | 4200  |
| Db | 361  | CTTCCCGGGGCGCGCATGGCCGCGCAGCGGCGCGAGCGGCGCCGGGGCTCCGGAGAGAA    | 4200  |
| QY | 421  | AGGGAGGGGGGAGAGCGGGGACCTGCGGGGAACTCCAGAGGGGACCCGGGCGCGAGAGA    | 4800  |
| Db | 421  | AGGGAGGGGGGAGAGCGGGGACCTGCGGGGAACTCCAGAGGGGACCCGGGCGCGAGAGA    | 4800  |
| QY | 481  | GGGGGACCCCGGGGGCCACCGGGCTCCGGGGAGTCGCTCGCTCCTCCGAGATCCGC       | 5400  |
| Db | 481  | GGGGGACCCCGGGGGCCACCGGGCTCCGGGGAGTCGCTCGCTCCTCCGAGATCCGC       | 5400  |
| QY | 541  | CTTCAGGGCCAGCGGCTCCGAGAGCCGGGTCGCTCCGCGCTGACGCAACCTTGGCTT      | 6000  |
| Db | 541  | CTTCAGGGCCAGCGGCTCCGAGAGCCGGGTCGCTCCGCGCTGACGCAACCTTGGCTT      | 6000  |
| QY | 601  | CGACCGCGTCTGGTGAACAGACAGGAGATTACAGAGCGCGTACCGGCAACGCACTTACCTG  | 6600  |
| Db | 601  | CGACCGCGTCTGGTGAACAGACAGGAGATTACAGAGCGCGTACCGGCAACGCACTTACCTG  | 6600  |
| QY | 661  | CCAGGGTCCCTGGGGTCTACTACTTCCGCGCTCCATGCGCACCGCTACCGGGCCAGCTGCA  | 7200  |
| Db | 661  | CCAGGGTCCCTGGGGTCTACTACTTCCGCGCTCCATGCGCACCGCTACCGGGCCAGCTGCA  | 7200  |
| QY | 721  | GTTTGTCTGTGTGAAGATGGGAAATCCATTGCTCTTCTCCAGTTTTCGGGGGTG         | 7800  |
| Db | 721  | GTTTGTCTGTGTGAAGATGGGAAATCCATTGCTCTTCTCCAGTTTTCGGGGGTG         | 7800  |
| QY | 781  | GGCCCAAGCCAGCTCTCGGGGGGGGCCATGGTGAAGGCTGAGGCTCGAGGACCAAGT      | 8400  |
| Db | 781  | GGCCCAAGCCAGCTCTCGGGGGGGGCCATGGTGAAGGCTGAGGCTCGAGGACCAAGT      | 8400  |
| QY | 841  | GTGGGTGACGTGGGGTGGGTGATCTACATTGCGCATCTATGCGACGATCAAGACAGACAG   | 9000  |
| Db | 841  | GTGGGTGACGTGGGGTGGGTGATCTACATTGCGCATCTATGCGACGATCAAGACAGACAG   | 9000  |
| QY | 901  | CACCTTCTCCGGATTTCTGTGTACTCCGATGGCAGAGCTCCCGAGCTTGTGGTTAGTG     | 9600  |
| Db | 901  | CACCTTCTCCGGATTTCTGTGTACTCCGATGGCAGAGCTCCCGAGCTTGTGGTTAGTG     | 9600  |
| QY | 961  | CCCAATGGAAAGTAGAGTCATGCTCTCACTCTAGAAAGGAGGGTGAAGCTGCAACCA      | 10200 |
| Db | 961  | CCCAATGGAAAGTAGAGTCATGCTCTCACTCTAGAAAGGAGGGTGAAGCTGCAACCA      | 10200 |
| QY | 1021 | GCTCATCCAGAGAGGCTGGCCCCCTGGAAATATGTGAATTAAGTAAGGAGGTGGGGTAGA   | 10800 |
| Db | 1021 | GCTCATCCAGAGAGGCTGGCCCCCTGGAAATATGTGAATTAAGTAAGGAGGTGGGGTAGA   | 10800 |
| QY | 1081 | GCACCTCCCGCTCTGCTCTGTGGCAAGAAATGGAAAGTAGGAGTCTGTGCGATCAGCTCTG  | 11400 |
| Db | 1081 | GCACCTCCCGCTCTGCTCTGTGGCAAGAAATGGAAAGTAGGAGTCTGTGCGATCAGCTCTG  | 11400 |
| QY | 1141 | GCACCATGGGACATGGCTGGATTCTTGCCCAAGACAGAGAGTGTGCTGTGGTGGCAA      | 12000 |
| Db | 1141 | GCACCATGGGACATGGCTGGATTCTTGCCCAAGACAGAGAGTGTGCTGTGGTGGCAA      | 12000 |
| QY | 1201 | GTCTTAAGTCCCGCAGTTGCTGTGGTCCAGAGAGCCAGCGTGGGGTGTCTCTTCCGCTG    | 12600 |
| Db | 1201 | GTCTTAAGTCCCGCAGTTGCTGTGGTCCAGAGAGCCAGCGTGGGGTGTCTCTTCCGCTG    | 12600 |
| QY | 1261 | CTCTGCTTCTCTGTGATCTCCCAACCCCGCTCTGCTGGGGCGGGCCCTTTTCTCAGA      | 13200 |
| Db | 1261 | CTCTGCTTCTCTGTGATCTCCCAACCCCGCTCTGCTGGGGCGGGCCCTTTTCTCAGA      | 13200 |

```

0Y 1321 GATCAGCTCAATAAAGCTAAGAACCTCATATAAAAAAAAAAAAAAAAAAAAAAA 1377
Db 1321 GATCAGCTCAATAAAGCTAAGAACCTCATATAAAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 3
US-09-944-896-41
: Sequence 41, Application US/09944896
: Patent No. US20020168715A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Flvaroff, Ellen
: APPLICANT: Gerritsen, Mary
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul
: APPLICANT: Grimaldi, Christopher
: APPLICANT: Gurney, Austin
: APPLICANT: Hillan, Kenneth
: APPLICANT: Kijavlin, Ivar
: APPLICANT: Napier, Mary
: APPLICANT: Roy, Margaret
: APPLICANT: Tumas, Daniel
: APPLICANT: Wood, William
: TITLE OF INVENTION: ACIDED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P2548P1C1
: CURRENT APPLICATION NUMBER: US/09/944, 896
: CURRENT FILING DATE: 2001-08-31
: PRIOR APPLICATION NUMBER: 09/866, 028
: PRIOR FILING DATE: 2001-05-25
: PRIOR APPLICATION NUMBER: 60/069, 334
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069335
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069, 278
: PRIOR FILING DATE: December 11, 1997
: PRIOR APPLICATION NUMBER: 60/069, 425
: PRIOR FILING DATE: December 12, 1997
: PRIOR APPLICATION NUMBER: 60/069, 696
: PRIOR FILING DATE: December 15, 1997
: PRIOR APPLICATION NUMBER: 60/069, 694
: PRIOR FILING DATE: December 15, 1997
: PRIOR APPLICATION NUMBER: 60/069, 702
: PRIOR FILING DATE: December 16, 1997
: PRIOR APPLICATION NUMBER: 60/069, 870
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/069, 873
: PRIOR FILING DATE: December 17, 1997
: PRIOR APPLICATION NUMBER: 60/068, 017
: PRIOR FILING DATE: December 18, 1997
: PRIOR APPLICATION NUMBER: 60/070, 440
: PRIOR FILING DATE: January 5, 1998
: PRIOR APPLICATION NUMBER: 60/074, 086
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/074, 092
: PRIOR FILING DATE: February 9, 1998
: PRIOR APPLICATION NUMBER: 60/075, 945
: PRIOR FILING DATE: February 25, 1998
: PRIOR APPLICATION NUMBER: 60/111, 850
: PRIOR FILING DATE: December 16, 1998
: PRIOR APPLICATION NUMBER: 60/113, 286
: PRIOR FILING DATE: December 22, 1998
: PRIOR APPLICATION NUMBER: 60/146, 222
: PRIOR FILING DATE: July 28, 1999
: PRIOR APPLICATION NUMBER: PCT/US98/19330
: PRIOR FILING DATE: September 15, 1998
: PRIOR APPLICATION NUMBER: PCT/US98/25108
: PRIOR FILING DATE: December 1, 1998
: PRIOR APPLICATION NUMBER: 09/216, 021
: PRIOR FILING DATE: December 16, 1998

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| Query Match  | Similarity   | 100.0%                                                          | Score 1377  | DB 9 | Length 1377 |
|--------------|--------------|-----------------------------------------------------------------|-------------|------|-------------|
| Best Local   | Similarity   | 100.0%                                                          | Pred. No. 0 |      |             |
| Matches 1377 | Conservative | 0                                                               | Mismatches  | 0    | Indels      |
|              |              |                                                                 |             |      | Gaps        |
|              |              |                                                                 |             |      | 0           |
| QY           | 1            | GACTAGTTCCTCTGGAGTCTGGAGAGAGAAACCGAGCCGCGACGAGAGCGGAACCGAGC     | 60          |      |             |
| Db           | 1            | GACTAGTTCCTCTGGAGTCTGGAGAGAGAAACCGAGCCGCGACGAGAGCGGAACCGAGC     | 60          |      |             |
| QY           | 61           | TGGGGTACGCGCAGGCGCAGGGGGCCCTGGCCGGGGAGAAAGCGCGGGGCTGGAGCACCA    | 120         |      |             |
| Db           | 61           | TGGGGTACGCGCAGGCGCAGGGGGCCCTGGCCGGGGAGAAAGCGCGGGGCTGGAGCACCA    | 120         |      |             |
| QY           | 121          | CCAACGTGAGGGCTCCGAGTACGCGAGCGCCCGGAAAGAGAGCCCATTCGGGGAGCCGGGAGG | 180         |      |             |
| Db           | 121          | CCAACGTGAGGGCTCCGAGTACGCGAGCGCCCGGAAAGAGAGCCCATTCGGGGAGCCGGGAGG | 180         |      |             |
| QY           | 181          | GGGACTCGGAGAGAGACCCGGCGTCCGGGCTCCCGGTGCACAGCGCTATGAGAGCCACTCT   | 240         |      |             |
| Db           | 181          | GGGACTCGGAGAGAGACCCGGCGTCCGGGCTCCCGGTGCACAGCGCTATGAGAGCCACTCT   | 240         |      |             |
| QY           | 241          | CGTCTCTCTGTCCTCTGGGCTCTGGCGCGCGCTCGCCCCCACTGGAGCAACAAGATCCC     | 300         |      |             |
| Db           | 241          | CGTCTCTCTGTCCTCTGGGCTCTGGCGCGCGCTCGCCCCCACTGGAGCAACAAGATCCC     | 300         |      |             |
| QY           | 301          | CAGCCTCTGGCCCGGGGACCCCGGCTTTCGACGAGAGCGCGGGGCCACCATATGGCAGCCAGG | 360         |      |             |
| Db           | 301          | CAGCCTCTGGCCCGGGGACCCCGGCTTTCGACGAGAGCGCGGGGCCACCATATGGCAGCCAGG | 360         |      |             |
| QY           | 361          | CTTCCCGGGCGCGCATGCGCGAGCGCGCGAGCGCGCCCGCGGCTCTCCGAGAGAA         | 420         |      |             |
| Db           | 361          | CTTCCCGGGCGCGCATGCGCGAGCGCGCGAGCGCGCCCGCGGCTCTCCGAGAGAA         | 420         |      |             |
| QY           | 421          | AGGCGAGGGCGGAGCGCGGACTGCGCGGACCTCGAGGGAGACCCGGCGCGAGAGA         | 480         |      |             |
| Db           | 421          | AGGCGAGGGCGGAGCGCGGACTGCGCGGACCTCGAGGGAGACCCGGCGCGAGAGA         | 480         |      |             |

|   |      |                                                                 |      |
|---|------|-----------------------------------------------------------------|------|
| D | 421  | AGCGAGGGGGAGGGCCCGGGAGTGTGCCGGGAACTCGAAGGGAGACCCCGGGCCCGAGAGAGA | 480  |
| Q | 481  | GGCGGGACCCGGCGGGGCCACCGGGGCTGTGCCGGGAGTGTCTGGTCCCTCCCGGATCCG    | 540  |
| D | 481  | GGCGGGAGCCCGCGGGGGCCACCGGGGCTCCCGGGGAGTGTCTGGTCCCTCCCGGATCCG    | 540  |
| Q | 541  | CTTCACAGCCGAAGCGCTCCGAGAGCGCGGGGTCCCGGCTCGAGACACCCCTTGGCCCTT    | 600  |
| D | 541  | CTTCACAGCCGAAGCGCTCCGAGAGCGCGGGGTCCCGGCTCGAGAGACCCCTTGGCCCTT    | 600  |
| Q | 601  | CGACCGCTGTGTGTGAACAGACAGGACATTACGACGCGCTCACCGGCAAGTTCACTG       | 660  |
| D | 601  | CGACCGCTGTGTGTGAACAGACAGGACATTACGACGCGCTCACCGGCAAGTTCACTG       | 660  |
| Q | 661  | CCAGGTGCGTGGGGGTCTACTACTTGGCGCTCCATCGACACCGCTACCGGGCCAGCTGCA    | 720  |
| D | 661  | CCAGGTGCGTGGGGGTCTACTACTTGGCGCTCCATCGACACCGCTACCGGGCCAGCTGCA    | 720  |
| Q | 721  | GTTTGTATCTGTGTGAAGAAATGCCAAATCCATTGCTCTTCTTCCAGTTTTTGGGGGGTG    | 780  |
| D | 721  | GTTTGTATCTGTGTGAAGAAATGCCAAATCCATTGCTCTTCTTCCAGTTTTTGGGGGGTG    | 780  |
| Q | 781  | GCCCAAGCCAGCGCTCTCGGGGGGGGGCCATGTGTAGAGCTGTGAGCCTGAGAGCCAAAT    | 840  |
| D | 781  | GCCCAAGCCAGCGCTCTCGGGGGGGGGCCATGTGTAGAGCTGTGAGAGCCTGAGAGCCAAAT  | 840  |
| Q | 841  | GTGGGTGACAGGTGGGTGTGTGGTGATACATTGGATCTATGCGACATCAAGACAGACAG     | 900  |
| D | 841  | GTGGGTGACAGGTGGGTGTGTGGTGATACATTGGATCTATGCGACATCAAGACAGACAG     | 900  |
| Q | 901  | CACCTTCCCGGATTTCTGTGTACTCCGACTGGCAGACTGCCAGTCTTGTCTTAACTG       | 960  |
| D | 901  | CACCTTCCCGGATTTCTGTGTACTCCGACTGGCAGACTGCCAGTCTTGTCTTAACTG       | 960  |
| Q | 961  | CCCACTGCAAAAGTAGACTCATTGACCTCACTCTAGAACAGAGGGTGTGAGGGTCGACAAACA | 1020 |
| D | 961  | CCCACTGCAAAAGTAGACTCATTGACCTCACTCTAGAACAGAGGGTGTGAGGGTCGACAAACA | 1020 |
| Q | 1021 | GGTCAATCCAGAGAGGGCTGGCCCCCTGGAAATATTGTGAATACTAAGGAGGTGGGGTGA    | 1080 |
| D | 1021 | GGTCAATCCAGAGAGGGCTGGCCCCCTGGAAATATTGTGAATACTAAGGAGGTGGGGTGA    | 1080 |
| Q | 1081 | GCACCTCCGCTCTGCTGTGGCAAGAAATGGGAACATGTGCTCTCTCCGATCAAGGTGTG     | 1140 |
| D | 1081 | GCACCTCCGCTCTGCTGTGGCAAGAAATGGGAACATGTGCTCTCTCCGATCAAGGTGTG     | 1140 |
| Q | 1141 | GCACAGTGGGCAAGTGGCTGATTTCTGCCAAGACAGAGAGAGTGTGCTGTGCGCA         | 1200 |
| D | 1141 | GCACAGTGGGCAAGTGGCTGATTTCTGCCAAGACAGAGAGAGTGTGCTGTGCGCA         | 1200 |
| Q | 1201 | GTTGAAGTCCCGCCAGTTGTCTGTGTCCAGAGAGCCACAGGTGGGTGCTCTTCTCTGCTC    | 1260 |
| D | 1201 | GTTGAAGTCCCGCCAGTTGTCTGTGTCCAGAGAGCCACAGGTGGGTGCTCTTCTCTGCTC    | 1260 |
| Q | 1261 | CTGTGCTTCTCTGGATCCTCCACGCCCTCTCTGCTCTGTGGGCGCGGCCCTTTTCTCAGA    | 1320 |
| D | 1261 | CTGTGCTTCTCTGGATCCTCCACGCCCTCTCTGCTCTGTGGGCGCGGCCCTTTTCTCAGA    | 1320 |
| Q | 1321 | GATACACTAATAAAGCTTAAGAACCCCTATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | 1377 |
| D | 1321 | GATACACTAATAAAGCTTAAGAACCCCTATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | 1377 |

```

RESULT 4
US-09-944-944-41
: Sequence 41, Application US/09944944
: Patent No. US20020173463A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin
: APPLICANT: Botstein, David
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrari, Napoleone
: APPLICANT: Filvaroff, Ellen

```



661 CCAGTGCCTGGGCTACTACTGCGCCCTCCATGCCACCGTCTACCGGGCCAGGCTGCA 720  
661 CCAGTGCCTGGGCTACTACTGCGCCCTCCATGCCACCGTCTACCGGGCCAGGCTGCA 720  
721 GTTGTATCTGTGAAGAAATGGGGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGTG 780  
721 GTTGTATCTGTGAAGAAATGGGGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGTG 780  
781 GCCCAAGCCAGCCTGCTCTCGGGGGGGCCATGTGTAGAGCTGAGACCAAGT 840  
781 GCCCAAGCCAGCCTGCTCTCGGGGGGGCCATGTGTAGAGCTGAGACCAAGT 840  
841 GTGGGTGCAAGTGGGTGGGTGAGTACTATGAGCATCTATGCCAGATCAAGACAGAG 900  
841 GTGGGTGCAAGTGGGTGGGTGAGTACTATGAGCATCTATGCCAGATCAAGACAGAG 900  
901 CACCTTCTCCGGAATTTCTGTGTACTCCGACAGTCCGACAGTCTTGTGTAGT 960  
901 CACCTTCTCCGGAATTTCTGTGTACTCCGACAGTCCGACAGTCTTGTGTAGT 960  
961 CCCACTGGAAGTGAAGTCACTGCTCTCCTCTAGAGAGAGGTGTAGAGCTGACAAACA 1020  
961 CCCACTGGAAGTGAAGTCACTGCTCTCCTCTAGAGAGAGGTGTAGAGCTGACAAACA 1020  
1021 GGTATCCAGAGAGGCTGCGCCCTGGATATTGTGATGACTAGAGAGGTGGGTAGA 1080  
1021 GGTATCCAGAGAGGCTGCGCCCTGGATATTGTGATGACTAGAGAGGTGGGTAGA 1080  
1081 GCATCTCCGCTGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1140  
1081 GCATCTCCGCTGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1140  
1141 GCACATGAGGAGGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1200  
1141 GCACATGAGGAGGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1200  
1201 GTTGAATCCCGGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1260  
1201 GTTGAATCCCGGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1260  
1261 CTCTGCTTCTGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1320  
1261 CTCTGCTTCTGCTGCTGCTGCGCAAGAAATGGAGCAAGTGGTGTGCAATCAGTCTG 1320  
1321 GATCACTCAATTAACCTTAAGAACCTTCAATTAACCTTCAATTAACCTTCAATTAACCTT 1377  
1321 GATCACTCAATTAACCTTAAGAACCTTCAATTAACCTTCAATTAACCTTCAATTAACCTT 1377

## RESULT 5

US-09-944-907-41  
Sequence 41, Application US/09944907  
Publication No. US20020198147A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Botstein, David  
APPLICANT: Baton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Geriltsen, Mary  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul  
APPLICANT: Grimaud, Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Hillen, Kenneth  
APPLICANT: Kijavlin, Ivar  
APPLICANT: Napier, Mary  
APPLICANT: Roy, Margaret  
APPLICANT: Tumes, Daniel  
APPLICANT: Wood, William  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
ACIDS ENCODING THE SAME

FILE REFERENCE: P254BP1C1  
CURRENT APPLICATION NUMBER: US/09/944, 907  
CURRENT FILING DATE: 2001-08-31  
PRIOR APPLICATION NUMBER: 09/866, 028  
PRIOR FILING DATE: 2001-05-25  
NUMBER OF SEQ ID NOS: 120  
SEQ ID NO 41  
LENGTH: 1377  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-09-944-907-41  
Query Match  
Best Local Similarity 100.0%; Score 1377; DB 9; Length 1377;  
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 GACTAATTTCTTGTGAAGTGTGGAGAGAGAAAGCCGAGCCGAGAGAGCAAGCAAGAC 60  
1 GACTAATTTCTTGTGAAGTGTGGAGAGAGAAAGCCGAGCCGAGAGAGCAAGCAAGAC 60  
61 TGGGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
61 TGGGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120  
121 CCAACTGAGAGAGTCCGAGTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180  
121 CCAACTGAGAGAGTCCGAGTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 180  
181 GGGAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
181 GGGAGTCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
241 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
241 GGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
301 CAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
301 CAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
361 GTTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
361 GTTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
421 AGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
421 AGGCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
481 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540  
481 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540  
541 GTTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
541 GTTACGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
601 CTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660  
601 CTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660  
661 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720  
661 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720  
721 GTTGTATCTGTGAAGAAATGGGGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGTG 780  
721 GTTGTATCTGTGAAGAAATGGGGAATCCATTGCCCTTTCTTCCAGTTTTCGGGGGTG 780  
781 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840  
781 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840  
841 GTGGGTGCAAGTGGGTGGGTGAGTACTATGAGCATCTATGCCAGATCAAGACAGAG 900

|                       |         |              |       |              |
|-----------------------|---------|--------------|-------|--------------|
| Query Match           | 100.0%; | Score 1377;  | DB 9; | Length 1377; |
| Best Local Similarity | 100.0%; | Pred. No. 0; |       |              |

|    | Matches | 1377:                                                            | Conservative | 0: | Mismatches | 0: | Indels | 0: | Gaps | 0: |
|----|---------|------------------------------------------------------------------|--------------|----|------------|----|--------|----|------|----|
| QY | 1       | GACTAGTCTCTTGTGAGTCTGGGAGAGAGAAAGCGAGACCGGACAGAGGAGCGCAACACAGAC  | 60           |    |            |    |        |    |      |    |
| Db | 1       | GACTAGTCTCTTGTGAGTCTGGGAGAGAGAAAGCGAGACCGGACAGAGGAGCGCAACACAGAC  | 60           |    |            |    |        |    |      |    |
| QY | 61      | TGGGGTGGAGGCGAGGCGAGAGGGGGCCCTTGGCCGGGGAGAGACCGCGGGGTGTGAGCACCA  | 120          |    |            |    |        |    |      |    |
| Db | 61      | TGGGGTGGAGGCGAGGCGAGAGGGGGCCCTTGGCCGGGGAGAGACCGCGGGGTGTGAGCACCA  | 120          |    |            |    |        |    |      |    |
| QY | 121     | CCAACTGGAGGGTCCGAGATACGAGACCCCGGAAAGAGAGGCGATCGGGAGAGCCCGGAGG    | 180          |    |            |    |        |    |      |    |
| Db | 121     | CCAACTGGAGGGTCCGAGATACGAGACCCCGGAAAGAGAGGCGATCGGGAGAGCCCGGAGG    | 180          |    |            |    |        |    |      |    |
| QY | 181     | GGGACTGCGAGAGAGACCCCGGGCTCCGGTCCAGCGCTATGAGGCCACTCT              | 240          |    |            |    |        |    |      |    |
| Db | 181     | GGGACTGCGAGAGAGACCCCGGGCTCCGGTCCAGCGCTATGAGGCCACTCT              | 240          |    |            |    |        |    |      |    |
| QY | 241     | CGTCCGTGCTCCGAGGCGCTGGGGCGGGCGGCGTCCCGCCCACTGGACAGCAAAAGATCC     | 300          |    |            |    |        |    |      |    |
| Db | 241     | CGTCCGTGCTCCGAGGCGCTGGGGCGGGCGGCGTCCCGCCCACTGGACAGCAAAAGATCC     | 300          |    |            |    |        |    |      |    |
| QY | 301     | CAGCCTCTGCCCCGGGCGACCCCGGCTTTCAGGACAGCCGGGACACCATGTGACAGG        | 360          |    |            |    |        |    |      |    |
| Db | 301     | CAGCCTCTGCCCCGGGCGACCCCGGCTTTCAGGACAGCCGGGACACCATGTGACAGG        | 360          |    |            |    |        |    |      |    |
| QY | 361     | CTTGGCGGGGGCCCATTGGCCCGCGAGACGGCGGACGGCGCCCGGGGTCTCCGGAGAA       | 420          |    |            |    |        |    |      |    |
| Db | 361     | CTTGGCGGGGGCCCATTGGCCCGCGAGACGGCGGACGGCGCCCGGGGTCTCCGGAGAA       | 420          |    |            |    |        |    |      |    |
| QY | 421     | AGGCGAGGGCGGAGGCGCGGAGCTGCGGGACCTCGAGGGAGACCCCGGGCGGAGAGAG       | 480          |    |            |    |        |    |      |    |
| Db | 421     | AGGCGAGGGCGGAGGCGCGGAGCTGCGGGACCTCGAGGGAGACCCCGGGCGGAGAGAG       | 480          |    |            |    |        |    |      |    |
| QY | 481     | GGCGGAGACCGCGGGGGGCCACCGGGGCTGGCGGGAGTCTCGGTCTCTCCGATCCG         | 540          |    |            |    |        |    |      |    |
| Db | 481     | GGCGGAGACCGCGGGGGGCCACCGGGGCTGGCGGGAGTCTCGGTCTCTCCGATCCG         | 540          |    |            |    |        |    |      |    |
| QY | 541     | CTTACGCCCAAGCGCTCGAGAGCCCGGGTCTTCGCGCGCTGAGAGCAACCTTGGCCCT       | 600          |    |            |    |        |    |      |    |
| Db | 541     | CTTACGCCCAAGCGCTCGAGAGCCCGGGTCTTCGCGCGCTGAGAGCAACCTTGGCCCT       | 600          |    |            |    |        |    |      |    |
| QY | 601     | CGACCGCGTGTGTGAACGAGAGGACATTCGACGCGCTCACCGGCAAGTTCACCTG          | 660          |    |            |    |        |    |      |    |
| Db | 601     | CGACCGCGTGTGTGAACGAGAGGACATTCGACGCGCTCACCGGCAAGTTCACCTG          | 660          |    |            |    |        |    |      |    |
| QY | 661     | CCAGGTCTGGGGTCTACTACTTCCCGCTCATATGACACCGTCTCCCGGCGACGCTCA        | 720          |    |            |    |        |    |      |    |
| Db | 661     | CCAGGTCTGGGGTCTACTACTTCCCGCTCATATGACACCGTCTCCCGGCGACGCTCA        | 720          |    |            |    |        |    |      |    |
| QY | 721     | GTTTGATCTGGTGAAGANTGGCAATTCATTTGCCCTTTTCGATTTCGAGGAGGCTG         | 780          |    |            |    |        |    |      |    |
| Db | 721     | GTTTGATCTGGTGAAGANTGGCAATTCATTTGCCCTTTTCGATTTCGAGGAGGCTG         | 780          |    |            |    |        |    |      |    |
| QY | 781     | GCCCAACCCAGCCCTCCGCTCGGGGGGGGCGAATGGTGAAGCTGTGAGACCTGAGACCAAGT   | 840          |    |            |    |        |    |      |    |
| Db | 781     | GCCCAACCCAGCCCTCCGCTCGGGGGGGGCGAATGGTGAAGCTGTGAGACCTGAGACCAAGT   | 840          |    |            |    |        |    |      |    |
| QY | 841     | GTTGGGTGAGGTGGTGGTGAATTCATTTGGCATCTTATGCGACATCAAGACAGACAG        | 900          |    |            |    |        |    |      |    |
| Db | 841     | GTTGGGTGAGGTGGTGGTGAATTCATTTGGCATCTTATGCGACATCAAGACAGACAG        | 900          |    |            |    |        |    |      |    |
| QY | 901     | CACCTTCTCCGGAATTTCTGTGTACTCCGACGTGAGCAAGCTCCCAAGCTTTTGGTTAATG    | 960          |    |            |    |        |    |      |    |
| Db | 901     | CACCTTCTCCGGAATTTCTGTGTACTCCGACGTGAGCAAGCTCCCAAGCTTTTGGTTAATG    | 960          |    |            |    |        |    |      |    |
| QY | 961     | CCCACGTGCAAAAGTGAAGCTATGCTCTCACTCCCTAAGAGAGGAGGTGTGAGGCTGACAAACA | 1020         |    |            |    |        |    |      |    |
| Db | 961     | CCCACGTGCAAAAGTGAAGCTATGCTCTCACTCCCTAAGAGAGGAGGTGTGAGGCTGACAAACA | 1020         |    |            |    |        |    |      |    |
| QY | 1021    | GGTATATCCAGAGAGGGTGGCCCGCTGGAAATTTCTGAAATACATAGAGAGTGGGGTGA      | 1080         |    |            |    |        |    |      |    |
| Db | 1021    | GGTATATCCAGAGAGGGTGGCCCGCTGGAAATTTCTGAAATACATAGAGAGTGGGGTGA      | 1080         |    |            |    |        |    |      |    |

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OY 1081 GCACTCTCCCTCTGCTGCTGCAAGAAAGAGATGGCTGTCTGCGATCAGGTCTG 1140
Db 1081 GCACTCTCCCTCTGCTGCTGCAAGAAAGAGATGGCTGTCTGCGATCAGGTCTG 1140
OY 1141 GCAACATGAGGAGCACTGCTGATTTCTGCCAAGACAGAGAGATGCTGTGCTGCA 1200
Db 1141 GCAACATGAGGAGCACTGCTGATTTCTGCCAAGACAGAGAGATGCTGTGCTGCA 1200
OY 1201 GTGTAATCCCCCAGTTGCTGTGTCAGAGAGCCAGGAGGCTGCTCTTCTGCTG 1260
Db 1201 GTGTAATCCCCCAGTTGCTGTGTCAGAGAGCCAGGAGGCTGCTCTTCTGCTG 1260
OY 1261 CTCGCTCTCTCTGATCTCTCCACCCCTCTCTCTCTGCGGCGCCCTTTCTCAGA 1320
Db 1261 CTCGCTCTCTCTGATCTCTCCACCCCTCTCTCTCTGCGGCGCCCTTTCTCAGA 1320
OY 1321 GATCCTCATTAACCTAAGAACCCCTCATNAAAAAAAAAAAAAAAAAAAAA 1377
Db 1321 GATCCTCATTAACCTAAGAACCCCTCATNAAAAAAAAAAAAAAAAAAAAA 1377

RESULT 7
US-10-028-072-361
; Sequence 361, Application US/10028072
; Publication No. US20030004311A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerltzen, Marcy E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang
; TITLE OF INVENTION:
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/028, 072
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
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; PRIOR APPLICATION NUMBER: 60/059836
; PRIOR FILING DATE: 1997-09-24
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062285

; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062287
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062814
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; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063045
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; PRIOR APPLICATION NUMBER: 60/063082
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; PRIOR APPLICATION NUMBER: 60/073612
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; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/074092
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/077791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/078910
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; PRIOR APPLICATION NUMBER: 60/079294
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; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
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PRIOR APPLICATION NUMBER: 60/080165  
 PRIOR FILING DATE: 1998-03-31  
 PRIOR APPLICATION NUMBER: 60/081203  
 PRIOR FILING DATE: 1998-04-09  
 PRIOR APPLICATION NUMBER: 60/081229  
 PRIOR FILING DATE: 1998-04-09  
 PRIOR APPLICATION NUMBER: 60/081695  
 PRIOR FILING DATE: 1998-04-14  
 PRIOR APPLICATION NUMBER: 60/081817  
 PRIOR FILING DATE: 1998-04-15  
 PRIOR APPLICATION NUMBER: 60/081818  
 PRIOR FILING DATE: 1998-04-15  
 PRIOR APPLICATION NUMBER: 60/082999  
 PRIOR FILING DATE: 1998-04-24  
 PRIOR APPLICATION NUMBER: 60/083322  
 PRIOR FILING DATE: 1998-04-28  
 PRIOR APPLICATION NUMBER: 60/083545  
 PRIOR FILING DATE: 1998-04-29  
 PRIOR APPLICATION NUMBER: 60/084600  
 PRIOR FILING DATE: 1998-05-07  
 PRIOR APPLICATION NUMBER: 60/084627  
 PRIOR FILING DATE: 1998-05-07  
 PRIOR APPLICATION NUMBER: 60/084637  
 PRIOR FILING DATE: 1998-05-07  
 PRIOR APPLICATION NUMBER: 60/085149  
 PRIOR FILING DATE: 1998-05-12  
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 PRIOR FILING DATE: 1998-06-26  
 PRIOR APPLICATION NUMBER: 60/091360

PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07

Query Match  
 Best Local Similarity 100.0%; Score 1377; DB 9; Length 1377;  
 Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GACTAGTTCTTGTGATCTGGGAGGAAACCGGAGCCGCGAGGAGCGAAGCAGGAC 60  
 1 GACTAGTTCTTGTGATCTGGGAGGAAACCGGAGCCGCGAGGAGCGAAGCAGGAC 60  
 61 TGGGATACGCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120  
 61 TGGGATACGCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120  
 121 CCAACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180  
 121 CCAACTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180  
 181 GGGACTGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240  
 181 GGGACTGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 240  
 241 GGTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
 241 GGTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
 301 CAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360  
 301 CAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360  
 361 CTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420  
 361 CTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 420  
 421 AGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480  
 421 AGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480  
 481 GGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540  
 481 GGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 540  
 541 CTTCAGCGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600  
 541 CTTCAGCGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600  
 601 CGAGCGCGTGTGTGAACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660  
 601 CGAGCGCGTGTGTGAACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660  
 661 CGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720  
 661 CGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720  
 721 GTTGTATCTGTGAAGATGCGAATCATTCCTCTTCTTCTTCTTCTTCTTCTTCTTCT 780  
 721 GTTGTATCTGTGAAGATGCGAATCATTCCTCTTCTTCTTCTTCTTCTTCTTCTTCT 780  
 781 GCGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840  
 781 GCGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 840  
 841 GTGGGTGAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900  
 841 GTGGGTGAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900  
 901 CACCTTCTCGGATTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 960  
 901 CACCTTCTCGGATTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 960



[illegible][illegible]

|    |      |                                                               |      |
|----|------|---------------------------------------------------------------|------|
| QY | 1021 | GGATCATCCAGACAGCGTGGCCCCCTGTGAATATGTGAATGACTAGAGAGTGGCGGTAGA  | 1080 |
| Db | 1021 | GGTATCATCCAGAGAGCGTGGCCCCCTGTGAATATGTGAATGACTAGAGAGTGGCGGTAGA | 1080 |
| QY | 1081 | GCACCTCCGCTCCTGGCTGTGGCAGGAATGGAAACAGTGGCTGTCTGCGATCAGCTGTG   | 1140 |
| Db | 1081 | GCACCTCCGCTCCTGGCTGTGGCAGGAATGGAAACAGTGGCTGTCTGCGATCAGCTGTG   | 1140 |

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Db 1141 GCAGATGGGCGAGTGGCTGATTTCTGCCCCAAGACAGAGAGTGTGCTGTCGAGCA 1200
QY 1201 GTGTAAGTCCCGCCAGTGTGTCGTCAGAGCCACAGGTGGGGTGTCTCTCTGCTC 1260
Db 1201 GTGTAAGTCCCGCCAGTGTGTCGTCAGAGCCACAGGTGGGGTGTCTCTCTGCTC 1260
QY 1261 CTCTGCTCTCTGATTCCTCCCGACCCCTCTGCTGCTGAGGCGCGCTTTTCTCAGA 1320
Db 1261 CTCTGCTCTCTGATTCCTCCCGACCCCTCTGCTGCTGAGGCGCGCTTTTCTCAGA 1320
QY 1321 GATCAGCTCAATTAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAA 1377
Db 1321 GATCAGCTCAATTAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAA 1377

```

```

RESULT 9
US-10-123-904-361
: Sequence 361, Application US/10123904
: Publication No. US20030022328A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Beresini, Maureen
: APPLICANT: Deforge, Laura
: APPLICANT: Desnoyers, Luc
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Sherwood, Steven
: APPLICANT: Smith, Victoria
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Wood, William
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P330R1C54
: CURRENT APPLICATION NUMBER: US/10/123,904
: PRIOR APPLICATION DATE: 2002-04-16
: NUMBER OF SEQ ID NOS: 550
: SFO ID NO 361
: LENGTH: 1377
: TYPE: DNA
: ORGANISM: Homo Sapien
US-10-123-904-361

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Query Match: 100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GACTACTTCTCTTGAGTCTGGAGAGAGAAAGCCGAGCGGAGGAGCAACCAAGAGC 60
Db 1 GACTACTTCTCTTGAGTCTGGAGAGAGAAAGCCGAGCGGAGGAGCAACCAAGAGC 60
QY 61 TGGGGTGCAGCGGAGGCGGCGCTGCGCGGAGAGAGCGCGGGGCTGGAGCACA 120
Db 61 TGGGGTGCAGCGGAGGCGGCGCTGCGCGGAGAGAGCGCGGGGCTGGAGCACA 120
QY 121 CCAACTGAGAGGAGTCCGAGTACGAGAGCGCCGGAAGAGAGCCATCGGGAGCCGGAGG 180
Db 121 CCAACTGAGAGGAGTCCGAGTACGAGAGCGCCGGAAGAGAGCCATCGGGAGCCGGAGG 180
QY 181 GGGAGTGCAGAGAGAGCCCGGCGCTCGGGCTCCCGTGCACAGCTATAGGCCACTCT 240
Db 181 GGGAGTGCAGAGAGAGCCCGGCGCTCGGGCTCCCGTGCACAGCTATAGGCCACTCT 240
QY 241 GGTCTGCTGCTCTGAGGCTCGGGCGGCTGCGCCCACTGAGACAGCAAGATCCC 300
Db 241 GGTCTGCTGCTCTGAGGCTCGGGCGGCTGCGCCCACTGAGACAGCAAGATCCC 300

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Db 241 GGTCTGCTGCTCTGAGGCTCGGGCGGCTGCGCCCACTGAGACAGCAAGATCCC 300
QY 301 CAGCCTTGCCCGGAGGAGCCCGGCTTCCAGGACAGCCGGGACCATATGACAGCCAGG 360
Db 301 CAGCCTTGCCCGGAGGAGCCCGGCTTCCAGGACAGCCGGGACCATATGACAGCCAGG 360
QY 361 CTTCGCGGCGGAGTATGAGCGGAGCGGAGCGGAGCGCGCGCGGCGCTCCGGAGAGA 420
Db 361 CTTCGCGGCGGAGTATGAGCGGAGCGGAGCGGAGCGGAGCGCGCGGCGCTCCGGAGAGA 420
QY 421 AGGCGAGGAGCGGAGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAGA 480
Db 421 AGGCGAGGAGCGGAGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAGA 480
QY 481 GGGGAGAGCGGCGGAGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAGA 540
Db 481 GGGGAGAGCGGCGGAGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAGA 540
QY 541 CTTCAGGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGG 600
Db 541 CTTCAGGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGG 600
QY 601 CGAGCGCGGAGCGGAGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAGA 660
Db 601 CGAGCGCGGAGCGGAGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGGAGA 660
QY 661 CCAAGTGCCTGGGGTACTACTTGGCGCTCATGCGACCGTCAACCGGGCCAGCCTGCA 720
Db 661 CCAAGTGCCTGGGGTACTACTTGGCGCTCATGCGACCGTCAACCGGGCCAGCCTGCA 720
QY 721 GTTGTATCTGTGAAGATGCGGAATTCATGCTCTTTCTTCCAGTTTTCGGGGGGG 780
Db 721 GTTGTATCTGTGAAGATGCGGAATTCATGCTCTTTCTTCCAGTTTTCGGGGGGG 780
QY 781 GCCCAAGCCAGCCTGCTCGGGGCGGCGCATGCTGAGCTGAGACCTGAGACCAAGT 840
Db 781 GCCCAAGCCAGCCTGCTCGGGGCGGCGCATGCTGAGCTGAGACCTGAGACCAAGT 840
QY 841 GTGGGTGAGTGGGGTGGTGGTACTACTATGGGATGATGACATCAAGACAGAGAG 900
Db 841 GTGGGTGAGTGGGGTGGTGGTACTACTATGGGATGATGACATCAAGACAGAGAG 900
QY 901 CACCTTCTCCGATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Db 901 CACCTTCTCCGATTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
QY 961 CCCAGTGCAGAGTGAAGTGCATGCTCTCACTCTCTAAGAGAGGCTGAGAGCTGACACCA 1020
Db 961 CCCAGTGCAGAGTGAAGTGCATGCTCTCACTCTCTAAGAGAGGCTGAGAGCTGACACCA 1020
QY 1021 GGTCAATCCAGAGGAGGCTGCGCCCTGGAATATTGTGAATGACTAGGAGGTGGGTAGA 1080
Db 1021 GGTCAATCCAGAGGAGGCTGCGCCCTGGAATATTGTGAATGACTAGGAGGTGGGTAGA 1080
QY 1081 GCACCTCTCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
Db 1081 GCACCTCTCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
QY 1141 GCAGATGAGGAGGAGTGGATTTCTGCGCAAGAGCGAGAGAGTGTCTGCTGCGCA 1200
Db 1141 GCAGATGAGGAGGAGTGGATTTCTGCGCAAGAGCGAGAGAGTGTCTGCTGCGCA 1200
QY 1201 GTGTAAGTCCCGCCAGTGTGTCGTCAGAGCCACAGGTGGGGTGTCTCTCTGCTG 1260
Db 1201 GTGTAAGTCCCGCCAGTGTGTCGTCAGAGCCACAGGTGGGGTGTCTCTCTGCTG 1260
QY 1261 CTCTGCTCTCTGATTCCTCCCGACCCCTCTGCTGCTGAGGCGCGCTTTTCTCAGA 1320
Db 1261 CTCTGCTCTCTGATTCCTCCCGACCCCTCTGCTGCTGAGGCGCGCTTTTCTCAGA 1320
QY 1321 GATCAGCTCAATTAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAA 1377
Db 1321 GATCAGCTCAATTAACCTTAAGAACCTCTATAAAAAAAAAAAAAAAAAAAAAA 1377

```



APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P330R1C353  
CURRENT APPLICATION NUMBER: US/10/175, 746  
PRIORITY FILING DATE: 2002-06-19  
NUMBER OF SEQ ID NOS: 550  
SEQ ID NO 361  
LENGTH: 1377  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-175-746-361

Query Match 100.0% Score 1377: DB 9: Length 1377:  
Best Local Similarity 100.0% Pred. No. 0:  
Matches 1377: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

QY 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCCGAGCCGAGAGCAACCAAGAGC 60  
DB 1 GACTAGTCTCTTGGAGTCTGGAGAGAGAAAGCCGAGCCGAGAGCAACCAAGAGC 60  
QY 61 TGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120  
DB 61 TGGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120  
QY 121 CCAAGTGAAGGCTCCGAGATAGCAGAGCCGCGGAGGAGGAGGAGGAGGAGGAGGAGG 180  
DB 121 CCAAGTGAAGGCTCCGAGATAGCAGAGCCGCGGAGGAGGAGGAGGAGGAGGAGG 180  
QY 181 GGGAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
DB 181 GGGAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240  
QY 241 GGTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
DB 241 GGTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300  
QY 301 CAGCCTTGCCCGGAGCAGCCCGGCTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAG 360  
DB 301 CAGCCTTGCCCGGAGCAGCCCGGCTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAG 360  
QY 361 CTTGGCGGGGCGGAGTGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
DB 361 CTTGGCGGGGCGGAGTGGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420  
QY 421 AGGCGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
DB 421 AGGCGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480  
QY 481 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540  
DB 481 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540  
QY 541 CTTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
DB 541 CTTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
QY 601 CGACCGGCTGTGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660  
DB 601 CGACCGGCTGTGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660  
QY 661 CAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720  
DB 661 CAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720

DB 661 CAGAGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720  
QY 721 GTTGTATCTGTGAAGAAATGGAGAAATCCATTCCTCTTCTCCAGATTTTTCGGGGGTG 780  
DB 721 GTTGTATCTGTGAAGAAATGGAGAAATCCATTCCTCTTCTCCAGATTTTTCGGGGGTG 780  
QY 781 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840  
DB 781 GGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840  
QY 841 GTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 900  
DB 841 GTGGGTGAGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGG 900  
QY 901 CACCTTCCGAGATTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 960  
DB 901 CACCTTCCGAGATTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 960  
QY 961 CCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1020  
DB 961 CCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1020  
QY 1021 GGTATATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080  
DB 1021 GGTATATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080  
QY 1081 GGTATATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140  
DB 1081 GGTATATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140  
QY 1141 GCAGCATGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200  
DB 1141 GCAGCATGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200  
QY 1201 GTGTAACTCCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260  
DB 1201 GTGTAACTCCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1260  
QY 1261 CTTGCTGCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1320  
DB 1261 CTTGCTGCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1320  
QY 1321 GATCAGTCAATTAACCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377  
DB 1321 GATCAGTCAATTAACCTTAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1377

RESULT 12  
US-10-176-918-361  
Sequence 361, Application US/10176918  
Publication No. US20030027275A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Beresini, Maureen  
APPLICANT: DeForge, Laura  
APPLICANT: Desnoyers, Luc  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Sherwood, Steven  
APPLICANT: Smith, Victoria  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P330R1C382  
CURRENT APPLICATION NUMBER: US/10/176,918



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Db 1 GACTAGTCTCTTGAGACTCTGGAGAGAAAGGAGCGGAGGAGGACGGAACCAAGAGC
QY 61 TGGGCTGACGGAGGGGAGGGGGCCCTGCGCGGAGAGAGCGCGGGCTGAGACACCA
Db 61 TGGGCTGACGGAGGGGAGGGGGCCCTGCGCGGAGAGAGCGCGGGCTGAGACACCA
QY 121 CCAACTGGAGGGTCCGAGTACGAGACGCCGCCGAAAGAGAGCCATCGGGAGCGGAGGG
Db 121 CCAACTGGAGGGTCCGAGTACGAGACGCCGCCGAAAGAGAGCCATCGGGAGCGGAGGG
QY 181 GGGAGCTGACAGAGAGACCCGGGCTCCGGGCTCCGGGTCACAGCGCTATGAGGCCACTCT
Db 181 GGGAGCTGACAGAGAGACCCGGGCTCCGGGCTCCGGGTCACAGCGCTATGAGGCCACTCT
QY 241 GCTCTGCTGCTCTGCTGCGGCTGCGGCGGCTGCGGCCACTGAGAGCAACAGATCCC
Db 241 GCTCTGCTGCTCTGCTGCGGCTGCGGCGGCTGCGGCCACTGAGAGCAACAGATCCC
QY 301 CAGCCTTGCCCGGGGGGCAACCCCGGCTTCAGAGCACGCCGGGCAACATGCGAGCGAGG
Db 301 CAGCCTTGCCCGGGGGGCAACCCCGGCTTCAGAGCACGCCGGGCAACATGCGAGCGAGG
QY 361 CTTCCTGCGGCGCGGATGCGCGGAGCGGCGGAGCGCGCGCGGCGCTCCGGAGAGAA
Db 361 CTTCCTGCGGCGCGGATGCGCGGAGCGGCGGAGCGCGCGCGGCGCTCCGGAGAGAA
QY 421 AGGCGAGGCGGGGAGCGCGGAGCTCGCGGACCTCGAGGGAGACCCGGGCGGAGAGAA
Db 421 AGGCGAGGCGGGGAGCGCGGAGCTCGCGGACCTCGAGGGAGACCCGGGCGGAGAGAA
QY 481 GCGCGGAGCGGGGGGGGCGCGGCGGCTCGCGGGAGCTGCTCGGCTCCGCGCATCCGC
Db 481 GCGCGGAGCGGGGGGGGCGCGGCGGCTCGCGGGAGCTGCTCGGCTCCGCGCATCCGC
QY 541 CTTCAGCGCCCAAGCGCTCCGAGAGCGCGGCTCGCGGCGCTGAGAGCGACCCGCTT
Db 541 CTTCAGCGCCCAAGCGCTCCGAGAGCGCGGCTCGCGGCGCTGAGAGCGACCCGCTT
QY 601 CGACCGCGCTGCTGTAAGAGAGAGGAGGACATTCAGAGCGCGCTGACCGGCAAGTTCACCTG
Db 601 CGACCGCGCTGCTGTAAGAGAGAGGAGGACATTCAGAGCGCGCTGACCGGCAAGTTCACCTG
QY 661 CCAGGCTGCTGGGCTTACTACTTGGCGGTCATGCGACCGTCTACCGGGCGGAGCGCTGCA
Db 661 CCAGGCTGCTGGGCTTACTACTTGGCGGTCATGCGACCGTCTACCGGGCGGAGCGCTGCA
QY 721 GTTGAATCTGCTGTAAGAGAGGAGGATCCATTCCTTCTTCAGATTTTCGGGGGCTG
Db 721 GTTGAATCTGCTGTAAGAGAGGAGGATCCATTCCTTCTTCAGATTTTCGGGGGCTG
QY 781 GCGCAAGCGAGCGCTGCTGCGGGGGGCGCATGAGGCTGAGAGCGTGAAGCAAGT
Db 781 GCGCAAGCGAGCGCTGCTGCGGGGGGCGCATGAGGCTGAGAGCGTGAAGCAAGT
QY 841 GTGGGTCAGAGTGGGCTGAGTACATTCGAGATTCATGAGCATTCAGCAATCAAGACAG
Db 841 GTGGGTCAGAGTGGGCTGAGTACATTCGAGATTCATGAGCATTCAGCAATCAAGACAG
QY 901 CACCTTCTCCGAGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Db 901 CACCTTCTCCGAGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
QY 961 CCCAGCTGCAAGAGTACATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Db 961 CCCAGCTGCAAGAGTACATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
QY 1021 GGTATATCAGAGAGGCTGCGCGCGCTGAGATATTTGATATGATAGAGAGGCTGGGTAGA
Db 1021 GGTATATCAGAGAGGCTGCGCGCGCTGAGATATTTGATATGATAGAGAGGCTGGGTAGA
QY 1081 GCACTCTCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Db 1081 GCACTCTCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT

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Db 1081 GCACTCTCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
QY 1141 GCAGATGGGGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Db 1141 GCAGATGGGGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
QY 1201 GTGTAAGTCCCGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Db 1201 GTGTAAGTCCCGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
QY 1261 CTGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
Db 1261 CTGCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
QY 1321 GATCAGCTCAATTAACCTTAAGACCCCTGATTAACCAACCAACCAACCAACCAACCAACCAACCA
Db 1321 GATCAGCTCAATTAACCTTAAGACCCCTGATTAACCAACCAACCAACCAACCAACCAACCAACCA

RESULT 14
US-10-137-865-361
: Sequence 361, Application US/10137865
: Publication No. US2003003215A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Beresini, Maureen
: APPLICANT: Desnoyers, Luc
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Geriltsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Gurney, Austin L.
: APPLICANT: Sherwood, Steven
: APPLICANT: Smith, Victoria
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tamas, Daniel
: APPLICANT: Matanabe, Colin K
: APPLICANT: Wood, William
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: ACIDS ENCODING THE SAME
: CURRENT APPLICATION NUMBER: US/10/137,865
: PRIOR APPLICATION NUMBER: 2002-05-03
: Prior Application removed - See Palm or File Wrapper
: NUMBER OF SEQ ID NOS: 550
: SEQ ID NO 361
: LENGTH: 1377
: TYPE: DNA
: ORGANISM: Homo Sapien
: US-10-137-865-361

Query Match 100.0%; Score 1377; DB 9; Length 1377;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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|    |      |                                                                |      |
|----|------|----------------------------------------------------------------|------|
| OY | 241  | CGTCTGCTGCTCTCTGGGCTTGCGGCGCGGCTCGCCCTCCACTGGAGCACAACAAGATCCC  | 300  |
| Db | 241  | CTCTCTGCTGCTCTCTGGGCTTGCGGCGCGGCTCGCCCTCCACTGGAGCACAACAAGATCCC | 300  |
| OY | 301  | CAGCCTTGCCCGGGGACACCCCGGCGTTTTCAGAGGACCCCGGGCCACCATGGACACCAAGG | 360  |
| Db | 301  | CAGCCTTGCCCGGGGACACCCCGGCTTTCAGAGGACCCCGGGCCACCATGGACACCAAGG   | 360  |
| OY | 361  | CTTGCCGGGCGCGCATATGGCCGCGACGGCCGCGACGGCGCGCCGCGGGCTCCGGGAGAGAA | 420  |
| Db | 361  | CTTGCCGGGCGCGCATATGGCCGCGACGGCCGCGACGGCGCGCCGCGGGCTCCGGGAGAGAA | 420  |
| OY | 421  | AGGGAGGGGCGGGAGGGCGGAGCTTCGGGGACCTCGAGGGGACCCCGGGCGGAGAGAA     | 480  |
| Db | 421  | AGGGAGGGGCGGGAGGGCGGAGCTTCGGGGACCTCGAGGGGACCCCGGGCGGAGAGAA     | 480  |
| OY | 481  | GGCGGAGCCCGGGGGCCCAACCGGGCTGCGGGGAGATGCTGAGTGCCTCCGAGATCCGC    | 540  |
| Db | 481  | GGCGGAGCCCGGGGGCCCAACCGGGCTGCGGGGAGATGCTGAGTGCCTCCGAGATCCGC    | 540  |
| OY | 541  | CTTCAGGGGCGCAACGCTTCGAGAGCCGGGTGCTCCGCGTCTGAGACACCTTGGCTT      | 600  |
| Db | 541  | CTTCAGGGGCGCAACGCTTCGAGAGCCGGGTGCTCCGCGTCTGAGACACCTTGGCTT      | 600  |
| OY | 601  | CGACCGCGTCTGCTGTAACAGCAGGAGGACATTACAGAGCGCGTACCCGGCAATTCACCTG  | 660  |
| Db | 601  | CGACCGCGTCTGCTGTAACAGCAGGAGGACATTACAGAGCGCGTACCCGGCAATTCACCTG  | 660  |
| OY | 661  | CGAGGTCCTGGGGGTACTACTTGGCGCGTCCATGCGACCGTACCGGGCGAGCTGCA       | 720  |
| Db | 661  | CGAGGTCCTGGGGGTACTACTTGGCGCGTCCATGCGACCGTACCGGGCGAGCTGCA       | 720  |
| OY | 721  | GTTTGATCTGTAAGAAATGSGGAATCCATTCGCTTCTTCAGATTTTGGGGGTG          | 780  |
| Db | 721  | GTTTGATCTGTAAGAAATGSGGAATCCATTCGCTTCTTCAGATTTTGGGGGTG          | 780  |
| OY | 781  | GGCCAAAGCCCTGCTCTCGGGGGGGCCATGATGAGAGCTGAGAGCAAGT              | 840  |
| Db | 781  | GGCCAAAGCCCTGCTCTCGGGGGGGCCATGATGAGAGCTGAGAGCAAGT              | 840  |
| OY | 841  | GTGGTGCAGGTGGGGGTGATGATTAATTGGCATTTATGCGACATCAAGACAGACAG       | 900  |
| Db | 841  | GTGGTGCAGGTGGGGGTGATGATTAATTGGCATTTATGCGACATCAAGACAGACAG       | 900  |
| OY | 901  | CACCTTCTCCGGATTCTGTGTACTCCGATGCGACAGCTCCCGAGCTTGTGTAGTG        | 960  |
| Db | 901  | CACCTTCTCCGGATTCTGTGTACTCCGATGCGACAGCTCCCGAGCTTGTGTAGTG        | 960  |
| OY | 961  | CCCACTGGAAGTAGGTCATGCTCTCACTCCTTGAAGAGAGGTGTAGAGCTGACAAACA     | 1020 |
| Db | 961  | CCCACTGGAAGTAGGTCATGCTCTCACTCCTTGAAGAGAGGTGTAGAGCTGACAAACA     | 1020 |
| OY | 1021 | GCTCATCAGAGAGGCTCGCCCGCTGGAAATATGTGAATAGTAAAGGAGGTGGGGTAA      | 1080 |
| Db | 1021 | GCTCATCAGAGAGGCTCGCCCGCTGGAAATATGTGAATAGTAAAGGAGGTGGGGTAA      | 1080 |
| OY | 1081 | GCACCTCCGCGTCTGCTGTGGCAAGAAATGGGAACAGTGGCTGTGCGATCAGGCTTG      | 1140 |
| Db | 1081 | GCACCTCCGCGTCTGCTGTGGCAAGAAATGGGAACAGTGGCTGTGCGATCAGGCTTG      | 1140 |
| OY | 1141 | GCAGCATGGGGCACTGGCTGATTCTTGCCCAAGACAGAGAGGTGTGCTGTGGCAA        | 1200 |
| Db | 1141 | GCAGCATGGGGCACTGGCTGATTCTTGCCCAAGACAGAGAGGTGTGCTGTGGCAA        | 1200 |
| OY | 1201 | GTGTAATCCCGCCAGTTGCTGTGTGTCAGAGACCCAGGAGGGGTGCTCTTCCTGCTG      | 1260 |
| Db | 1201 | GTGTAATCCCGCCAGTTGCTGTGTGTCAGAGACCCAGGAGGGGTGCTCTTCCTGCTG      | 1260 |
| OY | 1261 | CTGCTGCTCTGTGATCTCCCCACCCCGCTGATCTGTGGGGCGGGCTTTTCTCAGA        | 1320 |
| Db | 1261 | CTGCTGCTCTGTGATCTCCCCACCCCGCTGATCTGTGGGGCGGGCTTTTCTCAGA        | 1320 |

|                                                                           |      |                                                                 |      |
|---------------------------------------------------------------------------|------|-----------------------------------------------------------------|------|
| QY                                                                        | 1331 | GATCCTCAATTAACCTTAGAACCTCTATATAAAAAAAAAAAAAAAAAAAAAA            | 1377 |
| Db                                                                        | 1321 | GATCAGCTCAATTAACCTTAAGAACCTCTATATAAAAAAAAAAAAAAAAAAAAAA         | 1377 |
| RESULT 15                                                                 |      |                                                                 |      |
| US-10-140-474-361                                                         |      |                                                                 |      |
| ; Sequence 361, Application US/10140474                                   |      |                                                                 |      |
| ; Publication No. US20030032156A1                                         |      |                                                                 |      |
| ; GENERAL INFORMATION:                                                    |      |                                                                 |      |
| ; APPLICANT: Baker, Kevin P.                                              |      |                                                                 |      |
| ; APPLICANT: Beresini, Maureen                                            |      |                                                                 |      |
| ; APPLICANT: DeForge, Laura                                               |      |                                                                 |      |
| ; APPLICANT: Desnoyers, Luc                                               |      |                                                                 |      |
| ; APPLICANT: Filvaroff, Ellen                                             |      |                                                                 |      |
| ; APPLICANT: Gao, Wei-Qiang                                               |      |                                                                 |      |
| ; APPLICANT: Gerritsen, Mary E.                                           |      |                                                                 |      |
| ; APPLICANT: Goddard, Audrey                                              |      |                                                                 |      |
| ; APPLICANT: Godowski, Paul J.                                            |      |                                                                 |      |
| ; APPLICANT: Gurney, Austin L.                                            |      |                                                                 |      |
| ; APPLICANT: Sherwood, Steven                                             |      |                                                                 |      |
| ; APPLICANT: Smith, Victoria                                              |      |                                                                 |      |
| ; APPLICANT: Stewart, Timothy A.                                          |      |                                                                 |      |
| ; APPLICANT: Tumas, Daniel                                                |      |                                                                 |      |
| ; APPLICANT: Watanabe, Colin K                                            |      |                                                                 |      |
| ; APPLICANT: Wood, William                                                |      |                                                                 |      |
| ; APPLICANT: Zhang, Zemin                                                 |      |                                                                 |      |
| ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC |      |                                                                 |      |
| ; FILE REFERENCE: P3330R1C162                                             |      |                                                                 |      |
| ; CURRENT APPLICATION NUMBER: US/10/140,474                               |      |                                                                 |      |
| ; CURRENT FILING DATE: 2002-05-06                                         |      |                                                                 |      |
| ; Prior Application removed - See Palm or File Wrapper                    |      |                                                                 |      |
| ; NUMBER OF SEQ ID NOS: 550                                               |      |                                                                 |      |
| ; SEQ ID NO 361                                                           |      |                                                                 |      |
| ; LENGTH: 1377                                                            |      |                                                                 |      |
| ; TYPE: DNA                                                               |      |                                                                 |      |
| ; ORGANISM: Homo Saplen                                                   |      |                                                                 |      |
| US-10-140-474-361                                                         |      |                                                                 |      |
| Query Match 100.0%; Score 1377; DB 9; Length 1377;                        |      |                                                                 |      |
| Best Local Similarity 100.0%; Pred. NO. 0;                                |      |                                                                 |      |
| Matches 1377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;             |      |                                                                 |      |
| QY                                                                        | 1    | GACTGACTCTCTTGGAGTCTGGGAGAGAAAGCCGAGCCGCGACGAGCAAGCAACCGAGNC    | 60   |
| Db                                                                        | 1    | GACTGACTCTCTTGGAGTCTGGGAGAGAAAGCCGAGCCGCGACGAGCAAGCAACCGAGNC    | 60   |
| QY                                                                        | 61   | TGGGGTGAACGGAGGCAAGGGGGCGCTGGCGGGGAGAAAGCGCGGGGGCTTGGAGCACCA    | 120  |
| Db                                                                        | 61   | TGGGGTGAACGGAGGCAAGGGGGCGCTGGCGGGGAGAAAGCGCGGGGGCTTGGAGCACCA    | 120  |
| QY                                                                        | 121  | CCAACTGAGAGGCTCCGAGTAGAGCAAGCCGCCGGAAGAGAGGCAATCGGAGACCGGGAGGG  | 180  |
| Db                                                                        | 121  | CCAACTGAGAGGCTCCGAGTAGAGCAAGCCGCCGGAAGAGAGGCAATCGGAGACCGGGAGGG  | 180  |
| QY                                                                        | 181  | GGAGCTGGAGAGAGACCCCGGGCGTCGGGGCTCCGGGTGTCACAGCCCTATAGGCCACTCTCT | 240  |
| Db                                                                        | 181  | GGAGCTGGAGAGAGACCCCGGGCGTCGGGGCTCCGGGTGTCACAGCCCTATAGGCCACTCTCT | 240  |
| QY                                                                        | 241  | CGTCTCTGCTGCTCTCTGGGCTGAGCGGCGGCTCCGCCCACTGAGAGCAACAAGATCCC     | 300  |
| Db                                                                        | 241  | CGTCTCTGCTGCTCTCTGGGCTGAGCGGCGGCTCCGCCCACTGAGAGCAACAAGATCCC     | 300  |
| QY                                                                        | 301  | CAGCCTCTGCGCCGGGGGACCCCGGCTTCCAGGTACGCGCGGGCCACCATGGCAGCCAGGG   | 360  |
| Db                                                                        | 301  | CAGCCTCTGCGCCGGGGGACCCCGGCTTCCAGGTACGCGCGGGCCACCATGGCAGCCAGGG   | 360  |
| QY                                                                        | 361  | CTTGCCCGGCGCGATGAGCCGCGACGAGCCCGCGCGCGCGCGGGCTCCGGGAGAGAA       | 420  |
| Db                                                                        | 361  | CTTGCCCGGCGCGATGAGCCGCGCGACGAGCCCGCGCGCGCGGGCTCCGGGAGAGAA       | 420  |
| QY                                                                        | 421  | AGGCGAGGGGAGGCGGAGACTGCCGGGAGCTTCGAGGGGAGACCCCGGGCGCGAGAGAA     | 480  |

